doi: 10.15940/j.cnki.0001-5245.2020.03.002

Fermi耀变体的γ射线多波段辐射与射电辐射的关系*

庹满先[1] 邓进杰[1] 杨江河[1,2†] 张月莲[1] 陈秀慧[1] 汪胜辉[1]
曲孝海[1] 聂建军[1] 樊军辉[2‡]

(1 湖南文理学院数理学院 常德 415000)
(2 广州大学天体物理中心 广州 510006)

摘要 从Fermi 3期源表(3FGL)中选择了一个含935个耀变体(blazar)的样本, 包括415个平谱射电源(Flat Spectrum Radio Quasar, FSRQ), 520个蝎虎天体(BL Lac object, BL Lac), 其中高同步峰BL Lac (HBL) 233个, 中同步峰BL Lac (IBL) 144个, 低同步峰BL Lac (LBL) 143个. 研究了总样本、FSRQ、BL Lac及其子类HBL、LBL的射电1.4 GHz与γ射线在0.1、0.3、1、3、10 GeV处辐射流量密度的关系. 结果显示: 所有样本的射电1.4 GHz与5个波段γ射线的辐射流量都有强相关, 相关系数在0.48–0.81之间, 机会概率均小于10^{-4}; 对于不同的样本相关系数随着γ射线辐射频率的变化有不同的变化趋势, 所有样本在5个波段的相关系数平均值随γ射线频率的增加而减小. 该结果暗示, 随着频率的升高, blazar的γ射线辐射主导机制在发生变化, 在相同频率处, 不同类型天体的辐射主导机制存在差异; HBL的γ射线辐射主要由同步自康普顿主导, 而LBL的其他成份比HBL的更复杂; FSRQ的γ射线起源较BL Lac的复杂.

关键词 星系: 活动, 蝎虎天体: 普通, 类星体: 普通, 伽马射线: 星系, 辐射机制: 非热, 方法: 统计

中图分类号: P157; **文献标识码**: A

1 引言

由于耀变体(blazar)具有一些极端的观测性质, 如偏振度较高且变化幅度大、高光度、快速光变、视超光速运动及高能γ射线辐射等, 因而成为活动星系核(Active Galactic Nuclei, AGNs)的一个极端子类[1–9]. 按照发射线强弱的不同, blazar可分为平

2019-09-09收到原稿, 2020-01-20收到修改稿

*国家自然科学基金项目(11733001、U1431112、U1531245、11403006), 广东省自然科学基金项目(2017 A030313011、2019 B030302001), 广东省和广州市天体物理重点学科, 湖南省自然科学基金项目(2015JJ2104), 湖南省教育厅研究基金项目(16C1081、19C1263), 湖南文理学院博士科研启动基金项目(19BSQD38)资助

† yjianghe@163.com

‡ fjh@gzhu.edu.cn

谱射电源(Flat Spectrum Radio Quasar, FSRQ)和蝎虎天体(BL Lac object, BL Lac). FSRQ有强发射线, 而BL Lac没有或仅有很弱的发射线.

Blazar在射电到γ射线波段都有很强的辐射, 它们各个波段的连续谱很复杂, 不能用单个幂律谱来描述. Blazar的能谱分布(Spectral Energy Distribution, SED)具有双峰结构, 第1个峰位于远红外到软X射线之间, 其主要来源为同步辐射; 第2个峰位于MeV到TeV波段[10–13], 主要由逆康普顿辐射产生, 一些BL Lac天体的第2个峰可用强子模型很好地解释[14–16]. 根据同步辐射峰频的高低, blazar可分为3类[3, 10], 即: 低同步峰频blazar (LSP), 中同步峰频blazar (ISP)和高同步峰频blazar (HSP). 对于BL Lac天体, 该3类分别为LBL (低同步峰BL Lac)、IBL (中同步峰BL Lac)和HBL (高同步峰BL Lac). 本文所使用的分类主要来自文献[3], 其以同步峰频($\nu_{\rm p}$/Hz)的分类标准为: LSP, $\lg(\nu_{\rm p}/{\rm Hz}) < 14$; ISP, $14 < \lg(\nu_{\rm p}/{\rm Hz}) < 15.3$; HSP, $\lg(\nu_{\rm p}/{\rm Hz}) > 15.3$.

研究多波段辐射之间的关系(如: 2个波段的流量、光度或某个参数之间的关系)是弄清楚blazar辐射机制及波段之间辐射起源关联的有效方法之一[17–18]. 为了弄清blazar的高能γ射线辐射机制以及γ射线辐射与低能多波段辐射机制之间的关联, 不少作者研究了高能γ射线波段与低能多波段辐射之间的关系. 但由于受样本量及观测设备精度的限制, 所得结果并不完全一致. 如: Dondi等[19]用EGRET (Energetic Gamma Ray Experimental Telescope)数据研究了γ射线波段和较低能波段辐射的关系, 发现γ射线与射电光度相关较其与其他波段(如光学和X射线波段)光度关系更好; Xie等[20]收集了16个有γ射线噪blazar天体的近红外和γ射线辐射流量, 发现γ射线与红外波段的光度关系较γ射线与光学或X射线之间关系更好; Fan[21]发现γ射线流量和射电流量有相关存在, 但是γ射线流量与光学流量或与X射线流量之间却没有相关; Fan等[22]研究发现γ射线与射电230 GHz辐射在高态时有相关, 但是γ射线波段和射电5 GHz辐射的相关关系很弱; Huang等[23]研究了γ射线和射电辐射之间的关系, 发现不同类星体的射电辐射与其他辐射存在不同程度的关联; Yang等[24]用EGRET数据研究了高、中、低态的γ射线辐射与射电8.4 GHz辐射之间的关系, 发现在高态时两者有强相关, 低态时无相关; 最近, Fan等[25]讨论了γ射线与射电波段之间的关系, 发现高频射电辐射与γ射线辐射的相关性强于低频射电辐射. 这些研究均只考虑了γ射线单频辐射与低能多波段辐射之间的关系, 且使用的样本量均不太大. 因此, γ射线辐射与低能辐射多波段之间关系研究是不完整的, 关于blazar多波段之间的辐射关系, 特别是γ射线与低能波段辐射之间的关系, 有必要用更大的样本及γ射线多波段数据做进一步的研究.

本文用Fermi 3期源表(3FGL)[26]的γ射线多波段数据研究了blazar γ射线多能段辐射与射电辐射的关系, 讨论了blazar不同子类在两波段上辐射机制的关联. 文章中频率ν处的谱指数α_ν定义为$f_\nu \propto \nu^{-\alpha_\nu}$, 式中, f_ν为ν处的流量密度.

2 样本及数据处理方法

2.1 样本选择

Fermi大天区望远镜自2008年运行以来已发布了5次数据, 分别为0FGL (亮源表)[27]、1FGL (1期源表)[28]、2FGL (2期源表)[29]、3FGL (3期源表)[26]和4FGL (4期源表)(https://fermi.gsfc.nasa.gov/ssc/data/access/lat/8 yr_catalog/), 各源表中所包含

的blazar分别为119、665、1063、1717、2938个. 4FGL于2018年3月发布, 但在4FGL中没有公布源的γ射线多波段光子流量及光变指数等数据. 因此, 本文将以3FGL为基础样本, 研究blazar射电1.4 GHz辐射与γ射线多波段辐射的关系.

3FGL中共3033个源, 其中有1717个是blazar. 1717个blazar中有573个BCU (未知类型耀变体)、660个BL Lac和484个FSRQ. 由于本文仅讨论FSRQ、HBL、LBL的射电与γ射线多波段辐射的关系, 因此样本中不包含BCU源, 再删除在多波段中观测γ射线光子流量误差大于66.6%的源, 最后本文的研究样本仅含935个blazar, 其中, 415个FSRQ, 520个BL Lac. 关于blazar的分类, 本文参照了文献[3]及[27]对blazar的分类. 射电1.4 GHz的流量密度全部来自美国航空航天局河外数据库(NED, http://ned.ipac.caltech.edu/). 最后的样本源及原始数据见表1 (表1为部分源数据, 完整源数据见表3附录). 表1中各列含义如下: 第1列, 源的3FGL名称; 第2列, 源的红移z; 第3列, 源的分类C, 其中F、B、H、I、L分别表示FSRQ、BL Lac、HBL、IBL和LBL; 第4列, 从NED获得的射电1.4 GHz流量密度$f_{1.4}$及其误差, 单位为mJy; 第5列, 为γ射线光子谱指数Γ及其误差; 第6–10列, 分别为γ射线在0.1–0.3、0.3–1、1–3、3–10、10–100 GeV能段的光子流量N, 上下标数字分别为以GeV为单位的能量上下限, 单位分别为10^{-9}、10^{-10}、10^{-10}、10^{-11}、$10^{-11}\,\mathrm{photon\cdot cm^{-2}\cdot s^{-1}}$, 表中已将单位统一转化为$10^{-11}\,\mathrm{photon\cdot cm^{-2}\cdot s^{-1}}$.

表 1　样本(完整表格见表3附录)

Table 1　Sample of blazars (See Appendix for complete samples)

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon·cm^{-2}·s^{-1})				
J0001.2−0748	0.57	I	209 ± 6.3	2.15 ± 0.09	4.09 ± 2.63	20.84 ± 4.5	5.22 ± 1.09	21.07 ± 5.07	–
J0001.4+2120	1.11	F	218 ± 6.5	2.31 ± 0.18	15.24 ± 2.39	36.4 ± 5.45	3.57 ± 1.02	–	–
J0006.4+3825	0.23	F	573 ± 17.2	2.62 ± 0.08	22.24 ± 3.97	35.08 ± 5.77	5.84 ± 1.25	–	–
…	…	…	…	…	…	…	…	…	…

2.2　数据处理方法

2.2.1　射电数据

表1中所有样本的射电1.4 GHz辐射流量均从NED中获得. 若在NED中某个源有多个1.4 GHz流量, 本文将选择误差较小且较接近平均值的那个值. 所获流量密度再用公式

$$f = f^{\mathrm{ob}}(1+z)^{(\alpha_\nu-1)}\,, \tag{1}$$

进行K改正. (1)式中: f为K改正后的真实流量密度; f^{ob}为观测流量; 对于未测得红移的源, 取同类源红移的平均值, 在本文中FSRQ平均红移$\bar{z}_{\mathrm{FSRQ}}=1.20$, BL Lac平均红移$\bar{z}_{\mathrm{BL}}=0.57$; 在进行K改正时, 取$\alpha_{1.4\ \mathrm{GHz}}=0$[3, 30].

2.2.2　γ射线数据

在3FGL表中给出了γ射线在0.1–0.3、0.3–1、1–3、3–10和10–100 GeV 5个波段的积分光子流量密度(单位: $\mathrm{photon\cdot cm^{-2}\cdot s^{-1}}$). 用其分别计算出0.1、0.3、1、3和10 GeV处

以Jy为单位的流量密度($f_{0.1\ \mathrm{GeV}}$、$f_{0.3\ \mathrm{GeV}}$、$f_{1\ \mathrm{GeV}}$、$f_{3\ \mathrm{GeV}}$和$f_{10\ \mathrm{GeV}}$), 计算公式[5–7]为

$$f(E) = 6.626 \times 10^{-4} \cdot \frac{1-\Gamma}{E_{\mathrm{U}}^{(1-\Gamma)} - E_{\mathrm{L}}^{(1-\Gamma)}} \cdot N \cdot E^{(1-\Gamma)} . \tag{2}$$

(2)式中, $f(E)$为γ射线在E GeV处以Jy为单位的流量密度, $\Gamma = \alpha_\gamma + 1$; E_{L}和E_{U}分别为观测波段的下、上限能量, 例如若观测波段为0.1–0.3 GeV, 则$E_{\mathrm{L}} = 0.1$ GeV, $E_{\mathrm{U}} = 0.3$ GeV. 以上计算的流量密度再用(1)式K改正. K改正时未知红移用同类源的平均值代替.

3 结果

按照以上数据处理方法, 可得到射电1.4 GHz流量密度(Jy)和γ射线5个波段(0.1–0.3、0.3–1、1–3、3–10、10–100 GeV)分别在0.1、0.3、1、3、10 GeV处的流量密度$f_{0.1\ \mathrm{GeV}}$、$f_{0.3\ \mathrm{GeV}}$、$f_{1\ \mathrm{GeV}}$、$f_{3\ \mathrm{GeV}}$、$f_{10\ \mathrm{GeV}}$. 分别做$\lg f_{1.4\ \mathrm{GHz}}$与$\lg f_{0.1\ \mathrm{GeV}}$、$\lg f_{0.3\ \mathrm{GeV}}$、$\lg f_{1\ \mathrm{GeV}}$、$\lg f_{3\ \mathrm{GeV}}$、$\lg f_{10\ \mathrm{GeV}}$的关系, 结果如图1所示, 其线性拟合结果如表2所示. 表2中: $y \sim x$表示纵横坐标所对应量之间的相关; Sam.为分类样本(T为总样本、F为FSRQ、B为BL Lac、H为HBL、L为LBL); r、n、p分别为两个量相关的相关系数、样本量和机会概率. 线性拟合结果方程表示为$y = (a \pm \Delta a) + (b \pm \Delta b)x$.

4 讨论

4.1 不同样本的流量相关

从图1及表2可知, 对于总样本、FSRQ、BL Lac及其子类HBL、LBL, 射电1.4 GHz流量与γ射线5个波段的流量均有好的正相关关系, 相关系数在0.551–0.807之间, 机会概率均小于10^{-4}. 但从表2的结果不难发现, 对于不同的样本及在不同的γ射线波段这种相关程度存在差别. 在5个波段上各样本的相关系数平均值分别为: 0.787 (HBL) > 0.705 (BL Lac) > 0.685 (Total) > 0.668 (FSRQ) > 0.616 (LBL). 因此, 总的看, 对于不同的样本, 射电与γ射线辐射的相关性, BL Lac样本的要好于FSRQ样本; 对于BL Lac的子类, HBL的相关性要好于LBL的相关性.

以上结果表明, γ射线与射电辐射流量密度间存在较强的关联, 也就是说它们的辐射机制存在较强的关联. 如果射电辐射来自同步辐射, 那么γ射线辐射主要来自同步自康普顿辐射. 在γ射线波段, BL Lac中的同步自康普顿辐射成份应多于FSRQ, HBL中的同步自康普顿辐射成份应多于LBL.

4.2 相关性随γ射线频率的变化

从表2可得到, 所有样本在5个波段上相关系数的平均值分别为: 0.703 (0.1 GeV) > 0.688 (0.3 GeV) > 0.682 (1 GeV) > 0.660 (3 GeV) > 0.594 (10 GeV). 因此, 总的看, 所有样本在5个波段上的相关性随着γ射线频率的升高而减弱. 按照“假设射电辐射来自同步辐射, 若γ射线辐射与射电辐射相关性越强, 则γ射线辐射来自同步自康普顿辐射的成份就越多”的观点, 可得到, γ射线辐射频率越高, 其同步自康普顿辐射成份越少. 为了弄清不同样本在γ射线多波段辐射与射电1.4 GHz辐射的关联, 本文给出了不同样本的射电与γ射线辐射相关系数与γ射线频率的关系, 结果如图2所示.

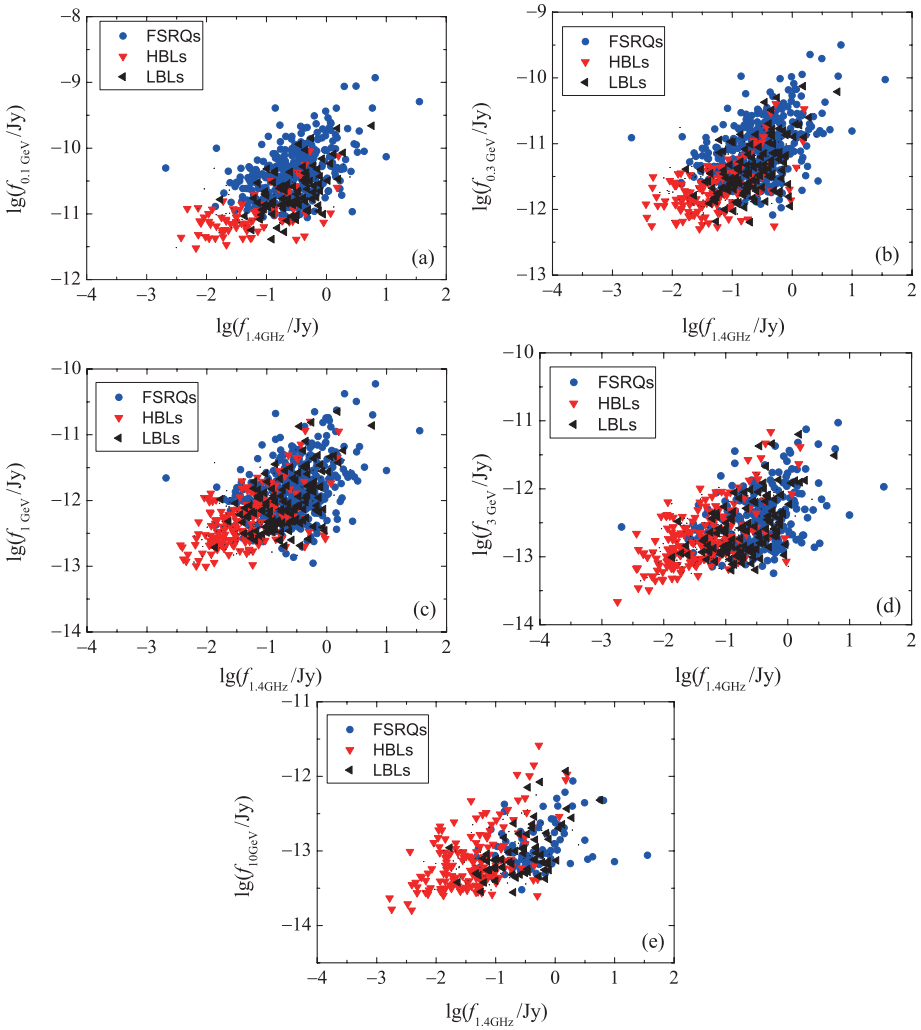

图 1　射电辐射与γ射线多波段辐射的相关

Fig. 1　The correlations between radio and multi-bands γ-ray emissions

从图2可知, 不同类型的天体, 其γ射线多波段辐射与射电辐射的相关性随频率的变化规律不相同.

对于总样本, 相关系数与γ射线辐射频率的变化呈抛物线型, 顶点(相关性最好)在10^{23} Hz左右, 相关系数在0.55–0.81之间变化(图2 (a)).

对于FSRQ样本, 随着频率的升高, 相关性先是快速增加, 再逐渐减小, 相关系数在0.55–0.73之间变化(图2 (a)); 对于BL Lac样本, 随着频率的升高, 相关性呈近似线性减小的趋势, 相关系数在0.63–0.77之间变化(图2 (a)).

对于BL Lac的子样本HBL, 相关系数有一个先增加再减小的趋势, 但相关系数变化很小, 相关系数在0.76–0.81之间变化(图2 (b)); 对于LBL, 相关系数呈近似线性减小的趋势, 相关系数在0.57–0.68之间变化(图2 (b)). 因此, HBL的这种相关性整体上要远好于LBL的.

表 2 射电1.4 GHz流量与5波段γ射线流量相关的线性拟合结果

Table 2 The linear fitting results for the flux correlations between radio 1.4 GHz and five bands of γ-ray emission

$y \sim x$	Sam.	$a \pm \Delta a$	$b \pm \Delta b$	r	n	p
$\lg f_{0.1\ \mathrm{GeV}} \sim \lg f_{1.4\ \mathrm{GHz}}$	T	-9.699 ± 0.001	0.562 ± 0.002	0.701	576	< 0.0001
	F	-9.621 ± 0.002	0.511 ± 0.002	0.689	342	< 0.0001
	B	-10.018 ± 0.003	0.565 ± 0.006	0.772	234	< 0.0001
	H	-10.114 ± 0.011	0.568 ± 0.014	0.779	81	< 0.0001
	L	-9.966 ± 0.004	0.496 ± 0.008	0.681	86	< 0.0001
$\lg f_{0.3\ \mathrm{GeV}} \sim \lg f_{1.4\ \mathrm{GHz}}$	T	-10.292 ± 0.001	0.666 ± 0.002	0.748	775	< 0.0001
	F	-10.214 ± 0.001	0.607 ± 0.002	0.725	397	< 0.0001
	B	-10.531 ± 0.002	0.61 ± 0.004	0.723	378	< 0.0001
	H	-10.502 ± 0.005	0.703 ± 0.007	0.798	137	< 0.0001
	L	-10.487 ± 0.003	0.585 ± 0.006	0.634	127	< 0.0001
$\lg f_{1\ \mathrm{GeV}} \sim \lg f_{1.4\ \mathrm{GHz}}$	T	-11.01 ± 0.001	0.651 ± 0.002	0.74	823	< 0.0001
	F	-10.964 ± 0.002	0.614 ± 0.003	0.698	387	< 0.0001
	B	-11.101 ± 0.003	0.619 ± 0.004	0.714	436	< 0.0001
	H	-10.972 ± 0.005	0.725 ± 0.006	0.807	179	< 0.0001
	L	-11.09 ± 0.004	0.635 ± 0.007	0.613	129	< 0.0001
$\lg f_{3\ \mathrm{GeV}} \sim \lg f_{1.4\ \mathrm{GHz}}$	T	-11.667 ± 0.003	0.552 ± 0.003	0.686	702	< 0.0001
	F	-11.712 ± 0.004	0.569 ± 0.006	0.664	274	< 0.0001
	B	-11.613 ± 0.004	0.585 ± 0.005	0.684	428	< 0.0001
	H	-11.405 ± 0.007	0.697 ± 0.007	0.79	188	< 0.0001
	L	-11.668 ± 0.006	0.641 ± 0.011	0.582	118	< 0.0001
$\lg f_{10\ \mathrm{GeV}} \sim \lg f_{1.4\ \mathrm{GHz}}$	T	-12.282 ± 0.006	0.411 ± 0.007	0.551	393	< 0.0001
	F	-12.59 ± 0.011	0.351 ± 0.019	0.566	93	< 0.0001
	B	-12.137 ± 0.007	0.517 ± 0.008	0.633	300	< 0.0001
	H	-11.88 ± 0.01	0.657 ± 0.009	0.76	162	< 0.0001
	L	-12.367 ± 0.013	0.567 ± 0.024	0.571	66	< 0.0001

根据以上分析的相关性, 可以得知不同类型天体γ射线辐射的主导机制随辐射能段的变化关系. 虽然轻子模型(lepton model)和强子模型(hadron model)都能较好地解释γ射线的起源, 但目前对γ射线的真正起源仍然不清楚. 轻子模型包括同步自康普顿(Synchrotron Self-Compton, SSC)和外康普顿(External Compton, EC)过程[31–34]. 在SSC过程中, 软光子起源于喷流中的同步辐射[31], 而EC过程中的软光子直接来自附近的吸积盘[33], 或者来自于吸积盘辐射在某个区域的再辐射[34]. 强子模型认为超相对论电

子和正电子的同步辐射在质子诱导的级联反应中产生[14–16].

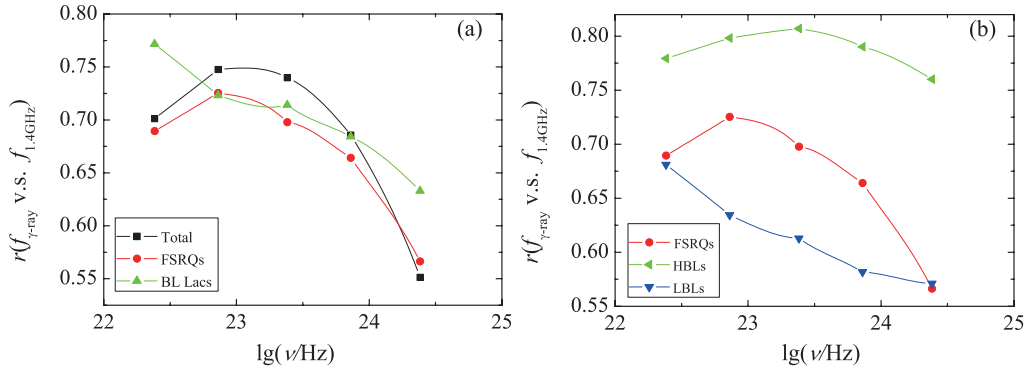

图 2　不同样本的射电与γ射线辐射相关系数与γ射线辐射频率的关系

Fig. 2　The relation between the correlation coefficient of γ-ray and radio emissions from different samples and γ-ray emission frequency

观测和理论表明γ射线辐射和射电辐射都具有很强的聚束效应, 且它们均源自喷流. 根据目前流行的观点, γ射线辐射起源模型主要是SSC和EC, 在喷流中的SSC过程产生的γ射线当达到光学薄时就辐射出来, 而这时对射电辐射来说喷流内部依然是光学厚的, 当到达喷流下游后光深变小时, 射电光子就能辐射出来了. 在射电和γ射线多波段的光变研究中, Lisakov等[35]发现3C273的γ射线光变超前射电145–165 d. 当SSC过程主导时, 射电与γ波段的流量密度之间具有很强的相关性. 对于EC过程, 因射电和γ波段都具有很强的喷流, 这种强的聚束效应也会导致γ与射电相关. 一般情况下, 应该是SSC和EC都起作用, 那么由于射电和γ射线辐射不是产生于同一批电子, 所以γ射线与射电辐射流量密度的相关相对SSC主导时会减弱.

目前认为射电辐射主要由同步辐射产生, 若γ射线辐射主要来自同步自康普顿辐射, 则我们可期待二者之间有相关, 且γ射线辐射中同步自康普顿辐射成份越多, 二者的相关性应越好. 按照前面的轻子模型和强子模型, γ射线辐射的组份应由SSC和EC以及强子的级联辐射成份组成. 如果将γ射线辐射成份简单理解为由SSC辐射成份和EC辐射成份组成, 那么根据本文所得到的相关结果可知, 不同类型的天体, 在不同频率处其两种机制辐射的成份比例不同, 即主导机制不同. 由于HBL的射电辐射与γ射线辐射5个波段均有很好的正相关, 因此, HBL的γ射线辐射主要由SSC辐射主导, 而LBL的相关性较弱, 因此, LBL的γ射线辐射或许有更多的EC辐射成份.

FSRQ和LBL除了发射线的差异外, 还有很多不同, 但它们的连续谱几乎相同. 它们的差异可能是演化或者是由于在共动坐标系中喷流部分与延展部分的比值不同所致[36]. 在γ波段, FSRQ的辐射比BL Lac强, 这可能归因于FSRQ具有较BL Lac更强的聚束效应所致. 如果FSRQ的γ辐射有来自于EC的贡献, 那么可能影响射电与γ射线辐射的相关性. 如果真是这样, 由图2中FSRQ的相关性随γ射线辐射频率的变化关系可知, FSRQ的γ射线起源较LBL的更复杂.

5 结论

本文以3FGL blazar为样本, 研究了射电1.4 GHz辐射与γ射线在0.1、0.3、1、3、10 GeV处辐射的流量关系, 得到以下结论:

(1)射电1.4 GHz辐射与γ射线5个波段的辐射均存在较强的关联, 相关性随着γ射线频率的升高而变弱;

(2)在γ射线波段, BL Lac的同步自康普顿辐射成份高于FSRQ, HBL的多于LBL;

(3)随着γ射线辐射频率的升高, γ射线辐射的主导机制在发生变化, 且不同类型天体的这种变化不同. HBL的γ射线辐射主要由SSC机制主导, LBL的γ射线辐射主要由EC机制主导, FSRQ的γ射线辐射主导机制较BL Lac的更复杂.

参 考 文 献

[1] Fan J H, Xie G Z. A&A, 1996, 306: 55
[2] Fan J H, Liu Y, Li Y, et al. JApA, 2011, 32: 67
[3] Fan J H, Yang J H, Liu Y, et al. ApJS, 2016, 226: 20
[4] Lin C, Fan J H. RAA, 2016, 16: 103
[5] Nie J J, Fan J H, Yang R S, et al. SCPMA, 2014, 57: 2007
[6] Yang J H, Fan J H, Yuan Y H. SCPMA, 2012, 55: 1510
[7] Yang J H, Fan J H, Hua T X, et al. Ap&SS, 2014, 352: 819
[8] 杨江河, 樊军辉, 张月莲, 等. 天文学报, 2018, 59: 38
[9] Yang J H, Fan J H, Zhang Y L, et al. ChA&A, 2019, 43: 23
[10] Abdo A A, Ackermann M, Agudo I, et al. ApJ, 2010, 716: 30
[11] 王雪品, 毕雄伟, 郑永刚, 等. 天文学报, 2017, 58: 34
[12] Wang X P, Bi X W, Zheng Y G. ChA&A, 2018, 42: 360
[13] Urry C M, Padovani P. PASP, 1995, 107: 803
[14] Mannheim K, Biermann P L. A&A, 1992, 253: L21
[15] Cheng K S, Ding W K Y. A&A, 1994, 288: 97
[16] Beall J H, Bednarek W. ApJ, 1999, 510: 188
[17] 聂建军, 陈怡, 樊军辉, 等. 天文学报, 2020, 61: 79
[18] Nie J J, Chen Y, Fan J H, et al. ChA&A, 2020, 44: in press
[19] Dondi L, Ghisellini G. MNRAS, 1995, 273: 583
[20] Xie G Z, Zhang Y H, Fan J H. ApJ, 1997, 477: 114
[21] Fan J H. Ap&SS, 1996, 246: 119
[22] Fan J H, Adam G, Xie G Z, et al. A&A, 1998, 338: 27
[23] Huang L H, Jiang D R, Cao X W. A&A, 1999, 341: 74
[24] Yang J H, Fan J H. ChJAA, 2005, 5: 229
[25] Fan X L, Wu Q W. ApJ, 2018, 869: 133
[26] Ackermann M, Ajello M, Atwood W B, et al. ApJ, 2015, 810: 14
[27] Abdo A A, Ackermann M, Ajello M, et al. ApJ, 2009, 700: 597
[28] Abdo A A, Ackermann M, Ajello M, et al. ApJS, 2010, 188: 405
[29] Nolan P L, Abdo A A, Ackermann M, et al. ApJS, 2012, 199: 31
[30] Donato D, Ghisellini G, Tagliaferri G, et al. A&A, 2001, 375: 739
[31] Maraschi L, Ghisellini G, Celotti A. ApJ, 1992, 397: L5
[32] Sikora M, Begelman M C, Rees M J. ApJ, 1994, 421: 153
[33] Dermer C D, Schlickeiser R, Mastichiadis A. A&A, 1992, 256: L27
[34] Blandford R D, Levinson A. ApJ, 1995, 441: 79

[35] Lisakov M M, Kovalev Y Y. IAU, 2014, 10: 39
[36] Fan J H. ApJ, 2003, 585: L23

The Correlations between Radio and γ-ray Emissions in Multi-bands for Fermi Blazars

TUO Man-xian[1] DENG Jin-jie[1] YANG Jiang-he[1,2] ZHANG Yue-lian[1]
CHEN Xiu-hui[1] WANG Sheng-hui[1] QU Xiao-hai[1] NIE Jian-jun[1]
FAN Jun-hui[2]

(1 College of Mathematics and Physics Science, Hunan University of Arts and Science, Changde 415000)
(2 Center for Astrophysics, Guangzhou University, Guangzhou 510006)

Abstract A sample including 935 blazars with 415 Flat Spectrum Radio Quasars (FSRQs) and 520 BL Lac objects (BL Lacs) (233 HBLs (High synchrotron peak frequency BL Lacs), 144 IBLs (Intermediate synchrotron peak frequency BL Lacs), and 143 LBLs (Low synchrotron peak frequency BL Lacs)) is selected in Fermi 3FGL catalogue. The correlations between two flux densities of the radio 1.4 GHz and γ-ray at 0.1, 0.3, 1, 3, and 10 GeV are investigated for the samples of all blazars, FSRQs, BL Lacs, and subclasses of HBLs and LBLs, respectively. Results show that there are strong positive correlations between the two flux densities, with the correlation coefficients $r = 0.48$–0.81 and the chance probabilities p all less than 10^{-4}; The correlation coefficient has different trends with the change of γ-ray emission frequency for different blazar samples, and the average correlation coefficients for all samples at the five respective bands decrease with the increase of γ-ray frequency. Therefore, with the increase of γ-ray frequency, the dominant mechanism of γ-ray radiation of blazar is changing, and at the same frequency the dominant mechanism is different for different samples. The γ-ray emission of HBLs may be mainly dominated by the synchrotron self-Compton, while the other mechanisms are responsible for the γ-ray emissions of LBLs. The origin of γ-ray in FSRQs is more complex than that of BL Lacs.

Key words galaxies: active, BL Lacertae objects (BL Lacs): general, quasars: general, gamma rays: galaxies, radiation mechanisms: non-thermal, methods: statistical

附录

表 3 样本(完整样本)

Table 3 Sample of blazars (Complete sample)

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J0001.2–0748	0.57	I	209 ± 6.3	2.15 ± 0.09	4.09 ± 2.63	20.84 ± 4.5	5.22 ± 1.09	21.07 ± 5.07	–
J0001.4+2120	1.11	F	218 ± 6.5	2.31 ± 0.18	15.24 ± 2.39	36.4 ± 5.45	3.57 ± 1.02	–	–
J0006.4+3825	0.23	F	573 ± 17.2	2.62 ± 0.08	22.24 ± 3.97	35.08 ± 5.77	5.84 ± 1.25	–	–
J0008.0+4713	0.28	H	61 ± 1.9	2.02 ± 0.05	–	44.3 ± 5.82	14.03 ± 1.47	57.46 ± 7.07	12.91 ± 3.5
J0008.6–2340	0.15	I	36 ± 1.2	1.6 ± 0.18	–	–	1.99 ± 0.77	–	7.22 ± 2.79
J0009.1+0630	0.57	L	247 ± 8.7	2.18 ± 0.11	4.97 ± 2.98	15.98 ± 4.97	4 ± 1.09	11.9 ± 3.98	3.79 ± 2.25
J0013.2–3954	0.57	L	495 ± 17.5	2.21 ± 0.09	6.75 ± 2.21	18.77 ± 3.86	4.31 ± 0.94	11.23 ± 3.68	5.4 ± 2.44
J0013.9–1853	0.09	H	30 ± 1	1.94 ± 0.17	–	–	2.23 ± 0.81	9.08 ± 3.41	–
J0016.3–0013	1.58	F	1090 ± 32.6	2.62 ± 0.07	19.11 ± 3.11	45.3 ± 5.47	5.17 ± 1.1	–	–
J0017.6–0512	0.23	F	178 ± 6.3	2.51 ± 0.08	20.04 ± 6.29	42.24 ± 6.61	6.99 ± 1.23	7.21 ± 3.51	–
J0018.4+2947	0.1	H	34 ± 1.1	1.86 ± 0.21	–	8.41 ± 3.8	–	5.23 ± 2.78	3.69 ± 2.09
J0019.4+2021	0.57	L	984 ± 29.5	2.25 ± 0.16	–	15.92 ± 4.53	–	4.87 ± 2.74	–
J0021.6–2553	0.57	I	69 ± 2.1	2.1 ± 0.1	6.16 ± 2.2	12.45 ± 3.64	4.38 ± 0.93	16.93 ± 4.45	4.21 ± 2.24
J0022.1–1855	0.57	H	22 ± 0.8	1.8 ± 0.07	–	13.2 ± 3.68	5.96 ± 1.06	35.1 ± 5.92	6.8 ± 2.71
J0022.5+0608	0.57	L	340 ± 10.2	2.07 ± 0.04	13.62 ± 3.36	59.68 ± 5.69	15.79 ± 1.5	50.81 ± 7.13	12.44 ± 3.79
J0023.5+4454	1.06	F	141 ± 4.2	2.57 ± 0.1	15.39 ± 3.29	22.13 ± 4.88	4.24 ± 1.02	5.42 ± 3.17	–
J0024.4+0350	0.55	F	22 ± 0.8	2.28 ± 0.12	6.43 ± 3.44	19.81 ± 5.01	3.35 ± 1.01	4.97 ± 3.23	–
J0032.3–2852	0.32	I	161 ± 5.7	2.19 ± 0.18	–	7.82 ± 3.56	1.44 ± 0.67	–	–
J0033.6–1921	0.61	H	19 ± 0.7	1.71 ± 0.04	9.17 ± 2.01	32.33 ± 4.01	16.89 ± 1.46	88.74 ± 8.61	41.86 ± 6.1
J0035.2+1513	0.25	H	19 ± 1	1.81 ± 0.09	–	7.96 ± 3.97	5.74 ± 1.14	24.02 ± 5.19	11.62 ± 3.57
J0035.9+5949	0.09	H	148 ± 5.8	1.9 ± 0.04	12.32 ± 3.77	65.67 ± 7.86	13.88 ± 1.78	67.92 ± 7.9	31.01 ± 4.62
J0037.9+1239	0.09	H	76 ± 2.3	2.15 ± 0.08	10.37 ± 3.37	29.01 ± 5.26	5.56 ± 1.22	20.29 ± 4.94	5.1 ± 2.51
J0038.0+0012	0.74	L	96 ± 2.9	2.16 ± 0.12	–	13.83 ± 4.12	2.29 ± 0.9	11.33 ± 4.05	–
J0038.0–2501	0.5	F	413 ± 12.4	2.44 ± 0.09	11.23 ± 2.69	22.24 ± 4.32	4.37 ± 0.94	6.57 ± 3.1	–
J0039.1–0939	2.1	F	154 ± 4.6	2.59 ± 0.15	–	18.65 ± 4.63	1.67 ± 0.81	–	–
J0041.9+3639	0.57	H	12 ± 0.6	1.98 ± 0.21	–	14.43 ± 4.16	–	–	3.21 ± 1.96
J0042.0+2318	1.43	F	1270 ± 38.1	2.35 ± 0.13	5.9 ± 3.38	15.8 ± 4.6	2.51 ± 0.89	8.28 ± 3.51	–
J0043.8+3425	0.97	F	93 ± 2.8	2.04 ± 0.05	10.82 ± 2.45	42.86 ± 5.11	10.1 ± 1.35	41.91 ± 6.24	10.53 ± 3.31
J0045.3+2126	0.57	H	50 ± 1.9	1.9 ± 0.06	10.14 ± 3.39	27.09 ± 4.66	8.07 ± 1.18	43.81 ± 6.36	12.96 ± 3.31
J0045.7+1217	0.57	I	104 ± 3.7	1.96 ± 0.08	–	19.6 ± 4.86	6.96 ± 1.18	22.9 ± 5.24	6.53 ± 2.64
J0046.7–8419	1.03	F	530 ± 53	2.82 ± 0.13	11.22 ± 4.04	19.51 ± 5.77	3.59 ± 1.12	–	–
J0048.0+2236	1.16	F	84 ± 2.6	2.33 ± 0.07	10.44 ± 4.14	41.73 ± 5.45	7.14 ± 1.21	18.16 ± 4.66	–
J0048.0+3950	0.25	H	93 ± 3.4	1.88 ± 0.12	–	10.29 ± 3.86	3.21 ± 0.97	10.36 ± 3.6	7.53 ± 2.71
J0049.7+0237	1.44	L	426 ± 12.8	2.24 ± 0.08	9.82 ± 2.68	24.99 ± 4.69	5.34 ± 1.1	19.96 ± 4.91	–
J0050.4–0449	0.92	F	254 ± 7.6	2.45 ± 0.11	8.37 ± 4.05	24.32 ± 5.33	4.2 ± 1.08	9.44 ± 3.59	–
J0050.6–0929	0.64	I	970 ± 70	2.09 ± 0.03	28.17 ± 3.23	102.27 ± 6.35	26.58 ± 1.84	77.43 ± 8.58	22.9 ± 4.8
J0051.0–0649	1.98	F	904 ± 27.1	2.1 ± 0.1	12.55 ± 3	49.46 ± 5.56	10.83 ± 1.43	22.18 ± 5.29	–
J0056.3–0935	0.1	H	201 ± 7.5	1.79 ± 0.12	–	8.51 ± 4.2	3.06 ± 0.95	12.49 ± 4.17	9.35 ± 3.23
J0056.3–2116	0.57	I	90 ± 2.7	1.81 ± 0.09	–	8.04 ± 3.39	4.4 ± 0.93	17.84 ± 4.68	7.58 ± 2.91

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					$/10^{-11}$ (photon $\cdot$ cm$^{-2}\cdot$ s^{-1})				
J0057.9–0542	1.25	F	742 ± 22.3	2.42 ± 0.17	–	14.28 ± 5.12	2.39 ± 1	4.76 ± 3.11	–
J0058.0–3233	1.37	L	186 ± 5.6	2.06 ± 0.06	7.67 ± 2.07	29.23 ± 4.1	10.32 ± 1.23	25.43 ± 5.22	6.85 ± 2.68
J0058.3+3315	1.37	F	161 ± 4.8	2.41 ± 0.11	10.04 ± 2.77	17.87 ± 4.54	4.77 ± 1.07	8.47 ± 3.43	–
J0059.2–0152	0.14	H	18 ± 0.7	1.74 ± 0.2	–	7.37 ± 3.74	–	6.59 ± 3.33	4.11 ± 2.27
J0059.6+0003	0.72	F	2510 ± 75.3	2.48 ± 0.16	–	12.67 ± 4.61	2.29 ± 0.89	–	–
J0102.3+4217	0.87	F	43 ± 1.7	2.69 ± 0.08	21.67 ± 3.07	36.25 ± 5.2	4.73 ± 1.07	–	–
J0105.1–2415	1.75	F	235 ± 8.3	2.61 ± 0.08	17.07 ± 2.62	35.38 ± 4.63	4.65 ± 0.99	5.8 ± 3.68	–
J0105.3+3928	0.08	L	92 ± 2.8	2.33 ± 0.11	9.86 ± 2.58	17.59 ± 4.39	2.62 ± 0.9	10.77 ± 3.63	–
J0108.5–0035	1.37	F	933 ± 28	2.39 ± 0.17	–	11.63 ± 4.64	3.03 ± 0.98	–	–
J0108.7+0134	2.1	F	2620 ± 78.6	2.26 ± 0.03	95.89 ± 4.17	253.32 ± 8.16	42.99 ± 2.22	85.37 ± 8.99	8.56 ± 3.17
J0109.1+1816	0.15	H	91 ± 2.8	2.04 ± 0.11	–	10.07 ± 4.37	4.63 ± 1.08	11.87 ± 3.73	6.25 ± 2.53
J0109.8+6132	0.78	F	305 ± 9.2	2.31 ± 0.05	91.95 ± 5.14	214.76 ± 10.75	34.02 ± 2.39	28.15 ± 5.97	3.63 ± 2.05
J0109.9–4020	0.31	H	57 ± 5.7	1.73 ± 0.16	–	–	2.87 ± 0.8	4.82 ± 2.68	3.23 ± 1.92
J0110.2+6806	0.29	I	1710 ± 60.5	1.99 ± 0.06	12.91 ± 5.67	45.47 ± 8.61	12.22 ± 1.79	42.34 ± 6.41	20.01 ± 3.76
J0110.9–1254	0.23	H	17 ± 0.7	1.93 ± 0.19	–	–	2.39 ± 0.88	–	3.61 ± 2.1
J0112.1+2245	0.27	I	386 ± 11.6	1.91 ± 0.03	46.62 ± 2.94	207.24 ± 7.17	64.04 ± 2.55	195.5 ± 12.2	46.48 ± 6.27
J0112.8+3207	0.6	F	685 ± 20.5	2.36 ± 0.03	54.34 ± 3.13	132.09 ± 6.44	25.98 ± 1.75	44.97 ± 6.57	8.63 ± 2.76
J0113.0–3554	1.22	F	180 ± 5.4	2.5 ± 0.12	7.26 ± 2.2	16.28 ± 3.88	3.4 ± 0.87	–	–
J0113.4+4948	0.39	F	667 ± 20	2.3 ± 0.08	14.66 ± 3.6	35.06 ± 5.99	6.19 ± 1.26	15.95 ± 4.49	5.01 ± 2.23
J0114.8+1326	2.03	I	64 ± 2	2.08 ± 0.06	9.03 ± 2.79	41.94 ± 5.13	7.31 ± 1.21	27.08 ± 5.38	12.11 ± 3.51
J0115.7+0356	0.57	H	99 ± 3	2.12 ± 0.06	9.65 ± 2.9	41.09 ± 5.26	7.12 ± 1.24	28.18 ± 5.63	7.19 ± 2.92
J0115.8+2519	0.36	H	38 ± 1.2	1.99 ± 0.08	12.08 ± 2.94	22.72 ± 4.93	7.29 ± 1.27	25.07 ± 5.41	12.94 ± 3.48
J0116.0–1134	0.67	F	1790 ± 53.6	2.34 ± 0.05	15.98 ± 2.97	57.37 ± 5.31	9.3 ± 1.25	15.96 ± 4.51	–
J0117.8–2113	1.49	F	255 ± 7.7	2.32 ± 0.1	–	39.8 ± 8.35	6.15 ± 1.42	14.7 ± 4.51	–
J0118.8–2142	1.17	F	448 ± 13.4	2.35 ± 0.05	42.06 ± 5.15	109.88 ± 9.14	23.21 ± 1.91	48.8 ± 7	5.05 ± 2.61
J0118.9–1457	0.11	H	5 ± 0.5	1.79 ± 0.16	–	5.91 ± 3.37	1.73 ± 0.69	6.23 ± 3.08	5.41 ± 2.38
J0120.4–2700	0.56	I	935 ± 28	1.91 ± 0.03	18.91 ± 2.76	74.13 ± 5.38	24.12 ± 1.67	100.92 ± 9.15	36.6 ± 5.66
J0122.8+3423	0.27	H	46 ± 2	1.48 ± 0.15	–	–	–	8.15 ± 3.47	9.39 ± 2.97
J0123.7–2312	0.4	H	28 ± 0.9	1.99 ± 0.1	7.98 ± 4.63	7.82 ± 4.43	5.22 ± 1.08	15.08 ± 4.24	4.96 ± 2.54
J0125.2–0627	2.12	I	42 ± 1.3	2.21 ± 0.13	–	17.43 ± 4.52	3.32 ± 0.97	5.58 ± 3.24	–
J0125.4–2548	0.57	L	166 ± 5	2.13 ± 0.11	5.24 ± 3.1	8.82 ± 3.66	4.2 ± 0.93	10.67 ± 3.64	–
J0126.1–2227	0.72	F	612 ± 18.4	2.43 ± 0.09	–	29.44 ± 5.49	6.3 ± 1.13	5.81 ± 3.28	–
J0127.1–0818	0.36	L	113 ± 3.4	2.21 ± 0.09	8.29 ± 2.56	19.88 ± 4.49	5.94 ± 1.14	9.76 ± 3.8	2.91 ± 1.91
J0127.9+2551	2.36	F	1000 ± 30.1	3.1 ± 0.15	19.45 ± 3.96	28.73 ± 5.91	1.97 ± 1.06	–	–
J0128.5+4430	0.23	F	37 ± 1.2	2.33 ± 0.11	9 ± 3.36	22.45 ± 4.91	3.39 ± 0.99	9.63 ± 3.8	–
J0130.8+1441	1.63	F	775 ± 27.4	2.65 ± 0.17	6.13 ± 3.08	19.16 ± 5.25	1.36 ± 0.84	–	–
J0131.2+6120	0.57	H	20 ± 0.7	1.86 ± 0.06	13.38 ± 5.77	41.73 ± 8.52	11.16 ± 1.81	48.11 ± 7.03	30.61 ± 4.67
J0132.6–1655	1.02	F	831 ± 24.9	2.43 ± 0.04	36.78 ± 2.66	94.3 ± 5.68	16.88 ± 1.48	19.68 ± 4.72	5.22 ± 2.59
J0134.3–3842	2.14	F	570 ± 17.1	2.33 ± 0.14	5.7 ± 2.15	9.47 ± 3.59	1.74 ± 0.75	10.18 ± 3.55	–
J0136.5+3905	0.57	H	61 ± 1.9	1.7 ± 0.02	18.53 ± 2.27	55.6 ± 4.82	26.2 ± 1.74	143.03 ± 10.43	93.21 ± 8.06
J0137.0+4752	0.86	F	1140 ± 34.1	2.15 ± 0.03	59.91 ± 3.82	185.13 ± 7.4	39.98 ± 2.11	92.48 ± 8.44	11.56 ± 3.18

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J0137.6–2430	0.84	F	1180 ± 40.7	2.52 ± 0.05	23.71 ± 2.85	58.97 ± 4.94	8.96 ± 1.17	10.28 ± 3.66	–
J0141.4–0929	0.73	L	1000 ± 270	2.12 ± 0.04	15 ± 2.49	65.85 ± 5.22	14.9 ± 1.43	43.99 ± 6.81	10.34 ± 3.26
J0144.6+2705	0.57	L	217 ± 6.5	2.06 ± 0.04	42.3 ± 3.06	137.56 ± 6.63	33.81 ± 2	87.57 ± 8.51	18.92 ± 4.03
J0145.1–2732	1.16	F	923 ± 27.7	2.57 ± 0.04	38.07 ± 2.86	83.83 ± 5.48	12.06 ± 1.35	14.97 ± 4.4	–
J0148.6+0128	0.94	I	88 ± 2.7	2.02 ± 0.13	–	16.02 ± 4.83	2.93 ± 0.99	11.26 ± 3.84	8.48 ± 3.26
J0151.6+2205	1.32	F	1040 ± 31.3	2.65 ± 0.11	13.65 ± 2.99	22.72 ± 5.39	3.31 ± 1.04	5.69 ± 3.37	–
J0152.6+0148	0.08	H	62 ± 1.9	1.89 ± 0.1	–	10.12 ± 4.63	6.24 ± 1.16	11.3 ± 3.99	10.79 ± 3.37
J0152.8+7517	0.57	H	22 ± 0.8	1.77 ± 0.13	–	–	2.46 ± 1.08	13.38 ± 3.77	5.37 ± 1.99
J0154.0+0824	0.68	H	207 ± 6.2	1.86 ± 0.05	4.5 ± 2.76	31.23 ± 5.1	11.02 ± 1.41	59.25 ± 7.56	17.75 ± 4.13
J0154.9+4433	0.57	I	38 ± 1.2	2.18 ± 0.12	–	14.74 ± 4.52	3.82 ± 1.01	5.05 ± 2.88	4.17 ± 2.04
J0158.6–3931	0.57	I	132 ± 4	2.02 ± 0.07	–	23.27 ± 3.96	6.84 ± 1.1	18.08 ± 4.68	7.71 ± 2.87
J0159.4+1046	0.2	H	48 ± 1.5	2.11 ± 0.09	13.48 ± 4.22	24.26 ± 5.45	7 ± 1.26	14.5 ± 4.5	9.96 ± 3.26
J0159.8–2741	0.57	I	103 ± 3.1	2.04 ± 0.1	–	8.51 ± 3.26	4.51 ± 0.96	13.6 ± 3.97	–
J0202.3+0851	0.55	F	135 ± 4.1	2.05 ± 0.16	–	–	2.28 ± 0.93	7.51 ± 3.58	–
J0202.5+4206	0.57	L	167 ± 5	2.28 ± 0.11	10.05 ± 2.89	16.57 ± 4.44	2.74 ± 0.97	9.86 ± 3.58	–
J0203.6+3043	0.76	L	167 ± 5	2.05 ± 0.05	20.92 ± 3.12	108.19 ± 6.43	24.53 ± 1.75	55.13 ± 7.23	9.63 ± 3.17
J0204.0+7234	0.57	I	230 ± 6.9	2.22 ± 0.08	10.55 ± 4.45	45.48 ± 7.43	6 ± 1.45	22.86 ± 5.05	5.88 ± 2.26
J0204.8+3212	1.47	F	658 ± 19.7	2.94 ± 0.1	28.67 ± 4.02	35.56 ± 6.09	4.74 ± 1.11	–	–
J0205.2–1700	1.74	F	1220 ± 36.6	2.76 ± 0.05	39.94 ± 2.91	67.62 ± 5.43	7.26 ± 1.14	–	–
J0206.4–1150	1.66	F	168 ± 5.1	2.33 ± 0.07	12.19 ± 2.58	29.43 ± 4.49	5.89 ± 1.07	19.87 ± 4.86	–
J0208.6+3522	0.32	H	5 ± 0.5	1.7 ± 0.19	4.31 ± 2.53	–	1.26 ± 0.79	8.89 ± 3.59	3.28 ± 1.95
J0209.5+4449	0.57	H	31 ± 1.6	1.97 ± 0.17	–	12.71 ± 4.33	1.44 ± 0.79	7.13 ± 3.21	5.06 ± 2.31
J0211.2+1051	0.2	I	319 ± 9.6	2.01 ± 0.04	39.97 ± 3.63	160.27 ± 7.6	36.25 ± 2.17	111.29 ± 9.78	20.16 ± 4.36
J0212.8–3504	0.39	H	19 ± 1	2.11 ± 0.13	–	13.75 ± 3.69	1.76 ± 0.78	11 ± 3.79	3.76 ± 2.16
J0213.0+2245	0.46	H	67 ± 2.1	2.1 ± 0.08	6.66 ± 2.86	29.42 ± 5.42	7.97 ± 1.31	14.48 ± 4.52	7.29 ± 2.79
J0214.4+5143	0.05	H	295 ± 8.9	2.04 ± 0.18	11.51 ± 3.28	–	–	13.42 ± 4.1	3.61 ± 1.94
J0217.1–0833	0.61	F	418 ± 12.5	2.33 ± 0.15	–	11.3 ± 4.35	2.74 ± 0.92	4.47 ± 2.93	–
J0217.2+0837	1.4	L	315 ± 9.5	2.1 ± 0.06	13.77 ± 3.39	37.4 ± 5.59	10.46 ± 1.43	41.78 ± 6.79	6.94 ± 2.89
J0217.5+7349	2.37	F	2270 ± 68.1	2.91 ± 0.06	53.98 ± 5.09	79.45 ± 8.16	7.53 ± 1.49	–	–
J0217.8+0143	1.72	F	751 ± 22.5	2.19 ± 0.03	37.76 ± 4.3	133.29 ± 7.06	31.92 ± 1.97	84.58 ± 8.92	15.83 ± 3.99
J0221.1+3556	0.68	F	1710 ± 51.2	2.28 ± 0.03	71.09 ± 6.06	171.36 ± 8.48	32.69 ± 2	95.75 ± 8.59	22.92 ± 4.38
J0222.1–1616	0.7	F	590 ± 17.7	2.6 ± 0.09	13.8 ± 2.88	32.08 ± 4.91	4.53 ± 1.03	4.76 ± 2.97	–
J0222.6+4301	0.44	H	2300 ± 69.1	1.88 ± 0.02	84.69 ± 5.35	395.67 ± 10.6	125.01 ± 3.49	482.01 ± 18.39	165.64 ± 10.53
J0222.9–1117	0.04	H	14 ± 0.6	1.82 ± 0.16	–	–	2.18 ± 0.78	5.54 ± 3.28	4.31 ± 2.26
J0226.3+0941	2.61	F	375 ± 11.3	2.19 ± 0.09	–	26.99 ± 5.41	3.7 ± 1.07	19.9 ± 5	–
J0227.2+0201	0.46	H	37 ± 1.2	2.04 ± 0.1	6.89 ± 2.77	14.69 ± 4.42	3.73 ± 0.94	23.73 ± 5.21	–
J0229.3–3643	2.12	F	117 ± 3.5	2.54 ± 0.06	21.36 ± 2.94	47.09 ± 4.87	8.13 ± 1.17	10.26 ± 3.52	–
J0230.8+4032	1.02	F	452 ± 13.6	2.55 ± 0.06	29.25 ± 3.81	56.33 ± 5.56	7.54 ± 1.23	10.61 ± 3.71	3.84 ± 1.97
J0232.8+2016	0.14	H	83 ± 3.3	2.03 ± 0.15	–	17.57 ± 5.2	2.48 ± 1.13	–	4.21 ± 2.19
J0237.5–3603	0.41	H	27 ± 1.2	1.86 ± 0.11	–	6.72 ± 3.63	2.79 ± 0.91	15.37 ± 4.34	3.97 ± 2.03
J0237.9+2848	1.21	F	2200 ± 65.9	2.16 ± 0.02	151.63 ± 3.91	463.56 ± 10	79.61 ± 2.89	145.95 ± 10.8	13.07 ± 3.47
J0238.3–3904	0.2	I	65 ± 2	1.94 ± 0.15	–	6.49 ± 3.34	1.68 ± 0.69	10.9 ± 3.61	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J0238.4–3117	0.23	H	71 ± 2.2	1.84 ± 0.08	–	16.05 ± 3.65	4.08 ± 0.91	23.74 ± 5.08	11.4 ± 3.3
J0238.6+1636	0.94	L	870 ± 10	2.06 ± 0.02	88.47 ± 3.96	321.16 ± 9.24	75.8 ± 2.88	211.78 ± 13.09	36.16 ± 5.73
J0242.3+1059	2.68	F	1530 ± 153	2.54 ± 0.1	11.42 ± 3.61	26.82 ± 6.23	5.14 ± 1.31	6.61 ± 3.69	–
J0243.5+7119	0.57	I	248 ± 24.8	2.11 ± 0.08	5.41 ± 3.55	30.55 ± 7.09	6.9 ± 1.43	18.51 ± 4.77	4.43 ± 1.94
J0245.4+2410	2.24	F	360 ± 35.7	2.58 ± 0.08	21.69 ± 4.07	47.36 ± 6.62	7.1 ± 1.41	6.44 ± 3.33	–
J0252.3+3830	1.12	F	781 ± 78.1	2.5 ± 0.17	7.1 ± 2.91	15.44 ± 4.77	–	–	–
J0253.1–5438	0.54	F	740 ± 74	2.45 ± 0.12	6 ± 2.27	16.13 ± 3.72	2.89 ± 0.8	4.98 ± 2.81	–
J0258.0+2030	0.57	I	98 ± 3	2.02 ± 0.16	6.49 ± 3.33	–	4.32 ± 1.57	9.85 ± 4.83	6.2 ± 2.64
J0259.5+0746	0.89	F	800 ± 10	2.21 ± 0.08	11.96 ± 3.98	32.8 ± 6.72	6.62 ± 1.36	22.73 ± 5.36	–
J0303.6+4716	0.48	I	1170 ± 117	2.28 ± 0.04	34.1 ± 3.8	81.78 ± 6.89	17.57 ± 1.71	38.48 ± 6.04	8.98 ± 2.8
J0303.7–6211	1.35	F	2430 ± 243	2.46 ± 0.06	19.45 ± 3.76	43.86 ± 4.98	6.87 ± 1.06	13.83 ± 3.9	–
J0309.0+1029	0.86	F	510 ± 51	2.09 ± 0.06	26.37 ± 3.72	86.58 ± 7.72	23.44 ± 2.03	40.25 ± 6.97	9.24 ± 3.19
J0309.9–6057	1.48	F	980 ± 98	2.42 ± 0.05	27.57 ± 4.42	76.27 ± 5.51	11.12 ± 1.25	25.05 ± 4.91	3.52 ± 2.01
J0312.7+0133	0.66	F	487 ± 48.7	2.28 ± 0.07	12.66 ± 3.26	35.72 ± 5.68	8.23 ± 1.37	19.46 ± 4.93	4.57 ± 2.38
J0312.7+3613	0.07	H	169 ± 16.9	2.28 ± 0.14	7.11 ± 3.72	15.45 ± 5.71	2.9 ± 1.11	7.53 ± 3.64	–
J0323.6–0109	2.08	I	30 ± 1	1.85 ± 0.1	4.13 ± 2.61	9.08 ± 4.46	3.72 ± 1.02	20.93 ± 5	12.17 ± 3.63
J0325.5+2223	2.07	F	525 ± 15.8	2.43 ± 0.08	49.37 ± 5.19	106.01 ± 8.04	12.62 ± 1.63	17.96 ± 4.96	–
J0325.6–1648	0.29	H	28 ± 0.9	1.79 ± 0.07	–	18.39 ± 4.31	6.49 ± 1.14	27.3 ± 5.45	18.21 ± 4.18
J0326.2+0225	0.15	H	68 ± 2.1	2 ± 0.09	8.12 ± 3.87	16.39 ± 5.2	5.57 ± 1.25	24.34 ± 5.34	7.43 ± 3.03
J0333.6+2916	0.57	H	194 ± 5.8	1.86 ± 0.06	–	20.29 ± 6.2	8.36 ± 1.45	41.84 ± 6.78	17.31 ± 4.1
J0333.9+6538	0.57	H	288 ± 8.7	1.94 ± 0.09	8.31 ± 3.88	24.56 ± 7.38	6.12 ± 1.54	15.2 ± 4.5	11.23 ± 2.86
J0334.3–3726	0.57	I	222 ± 7.9	1.97 ± 0.04	13.69 ± 3.49	59.43 ± 5.06	20.8 ± 1.59	69.04 ± 7.85	19.68 ± 4.16
J0334.3–4008	1.45	L	1920 ± 192	2 ± 0.04	37.11 ± 2.41	141.65 ± 5.93	34.6 ± 1.92	85.41 ± 8.46	19.31 ± 4.11
J0336.5+3210	1.26	F	2680 ± 80.3	2.89 ± 0.07	63.28 ± 5.05	68.22 ± 9.99	7.59 ± 1.77	–	–
J0336.9–1304	1.3	F	378 ± 11.3	2.67 ± 0.13	11.62 ± 3.21	17.53 ± 5.05	2.48 ± 0.91	–	–
J0336.9–3622	1.54	F	501 ± 15	2.44 ± 0.14	6.22 ± 3.46	14.9 ± 4.48	3.33 ± 0.92	–	–
J0338.1–2443	0.25	I	14 ± 1.1	1.29 ± 0.26	–	–	–	4.69 ± 2.91	3.77 ± 1.97
J0339.5–0146	0.85	F	2420 ± 72.7	2.25 ± 0.05	59.27 ± 3.33	162.06 ± 7.59	29.15 ± 2	48.97 ± 7.22	–
J0340.5–2119	0.22	L	1080 ± 38	2.22 ± 0.1	8.63 ± 2.9	14.25 ± 4.18	6.43 ± 1.08	9.64 ± 3.75	–
J0343.2–2534	1.42	F	504 ± 15.1	2.56 ± 0.08	11.91 ± 3.77	37.52 ± 4.99	6.46 ± 1.08	–	–
J0348.6–2748	0.99	F	840 ± 25.2	2.38 ± 0.12	8.67 ± 2.64	15.16 ± 4.98	3.64 ± 0.93	8.64 ± 3.46	–
J0348.7–1606	0.57	L	437 ± 13.1	2.47 ± 0.09	10.01 ± 2.66	32.07 ± 5.1	4.91 ± 1.09	6.81 ± 3.35	–
J0349.2–1158	0.19	H	9 ± 0.9	1.73 ± 0.16	–	–	–	11.91 ± 4.04	5.24 ± 2.55
J0349.9–2102	2.94	F	305 ± 9.2	2.2 ± 0.08	26.99 ± 2.78	86.43 ± 5.98	12.18 ± 1.44	8.24 ± 3.72	–
J0353.0–3622	0.57	I	7 ± 0.5	1.55 ± 0.18	–	–	1.21 ± 0.62	7.21 ± 3.35	4.73 ± 2.38
J0354.6+8011	0.57	L	644 ± 19.3	2.37 ± 0.08	12.62 ± 2.96	23.74 ± 4.47	5.34 ± 0.99	11.94 ± 3.33	–
J0358.8+6002	0.46	F	953 ± 28.6	2.52 ± 0.08	22.82 ± 4.16	53.49 ± 8.61	6.89 ± 1.62	16.65 ± 5.12	–
J0359.3–2612	1.47	L	797 ± 28.2	2.19 ± 0.18	7.5 ± 2.88	9.92 ± 5.35	–	5.82 ± 2.96	–
J0401.4+2109	0.83	F	247 ± 7.4	2.35 ± 0.11	6.7 ± 3.76	17.51 ± 6.39	5.11 ± 1.36	9.89 ± 3.89	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J0401.8–3144	1.29	F	682 ± 20.5	2.54 ± 0.2	7.59 ± 2.61	9.95 ± 3.9	1.46 ± 0.75	6.95 ± 3.27	–
J0402.1–2618	1.92	L	145 ± 4.4	2.13 ± 0.12	–	12.66 ± 5.49	4.88 ± 1.1	7.86 ± 3.27	–
J0403.7–2442	0.6	F	167 ± 5	2.37 ± 0.18	–	16.97 ± 4.56	1.24 ± 0.68	4.32 ± 2.66	–
J0403.9–3604	1.42	F	1150 ± 34.5	2.27 ± 0.03	144.61 ± 4.05	381.85 ± 8.64	53.55 ± 2.35	52.22 ± 6.92	–
J0405.5–1307	0.57	F	4250 ± 90	2.35 ± 0.11	8 ± 2.58	20.8 ± 4.78	3.57 ± 0.99	10.57 ± 4.09	–
J0407.1–3825	1.29	F	862 ± 30.4	2.4 ± 0.04	27.58 ± 3.27	76.42 ± 5.39	13.75 ± 1.36	27.17 ± 5.43	–
J0407.5+0740	1.13	L	296 ± 8.9	2.57 ± 0.1	21.93 ± 4.09	28.32 ± 6.8	4.92 ± 1.45	–	3.14 ± 2.03
J0409.8–0358	0.57	I	40 ± 1.3	2.06 ± 0.08	–	21.25 ± 5.19	6.81 ± 1.22	17.69 ± 4.89	5.62 ± 2.77
J0416.6–1850	1.54	F	1250 ± 44	2.34 ± 0.06	18.76 ± 2.59	41.08 ± 4.84	10.43 ± 1.29	14.11 ± 4.19	4.22 ± 2.27
J0416.8+0104	0.29	H	121 ± 4.1	1.75 ± 0.11	–	13.96 ± 5.63	2.98 ± 1.04	17.06 ± 4.82	9.94 ± 3.23
J0422.1–0642	0.24	F	150 ± 4.5	2.41 ± 0.1	8.28 ± 2.99	25.72 ± 5.1	4.67 ± 1.13	6.06 ± 3.43	–
J0423.2–0119	0.92	F	2730 ± 81.8	2.2 ± 0.03	78.42 ± 4.89	222.71 ± 8.66	43.88 ± 2.37	92.41 ± 9.17	17.6 ± 4.08
J0424.7+0035	0.31	I	493 ± 14.8	2.2 ± 0.05	20.32 ± 4.21	71.86 ± 7.06	14.18 ± 1.59	45.99 ± 7.02	3.74 ± 2.4
J0428.6–3756	1.11	L	737 ± 22.1	1.95 ± 0.02	122.56 ± 5.12	478.19 ± 10.82	143.06 ± 3.67	478.39 ± 19.01	104.35 ± 8.75
J0430.2-2508	0.52	I	107 ± 3.2	2.19 ± 0.12	–	13.77 ± 4.5	4.1 ± 1.03	6.68 ± 3.3	–
J0433.6+2905	0.97	L	399 ± 12	2.02 ± 0.04	22.13 ± 7.26	100.51 ± 9.81	27.83 ± 2.4	91.47 ± 9.68	30.73 ± 5.22
J0434.0–2010	0.93	L	166 ± 5	2.2 ± 0.1	–	16.36 ± 4.41	5.9 ± 1.13	9.71 ± 4	–
J0438.3–1258	1.28	F	367 ± 11	2.11 ± 0.16	–	11.69 ± 5.1	1.71 ± 0.94	15.05 ± 4.48	–
J0440.3–2500	0.6	H	13 ± 0.6	1.72 ± 0.21	–	–	–	8.68 ± 3.38	–
J0440.8+2751	0.57	I	140 ± 14	1.95 ± 0.14	–	21.92 ± 8.03	2.67 ± 1.3	18.96 ± 5.11	5.46 ± 2.53
J0442.6–0017	0.84	F	2780 ± 100	2.5 ± 0.03	86.1 ± 3.77	180.37 ± 7.76	29.06 ± 1.96	53.12 ± 7.53	3.91 ± 2.17
J0447.8–2119	1.97	F	264 ± 7.9	2.55 ± 0.15	7.56 ± 3.15	16.83 ± 4.86	2.46 ± 0.91	–	–
J0448.6-1632	0.57	H	59 ± 1.8	1.86 ± 0.08	–	15.04 ± 4.29	5.54 ± 1.09	27.32 ± 5.36	8.85 ± 3.15
J0449.0+1121	1.21	F	847 ± 25.4	2.23 ± 0.06	70.49 ± 4.01	192.43 ± 9.64	22.38 ± 2.16	30.34 ± 6.37	–
J0453.2–2808	2.56	F	2540 ± 76.3	2.63 ± 0.04	47.77 ± 3.23	95.08 ± 5.79	11.7 ± 1.35	13.45 ± 4.19	–
J0455.7–4617	0.86	F	2100 ± 440	2.55 ± 0.04	41.92 ± 3.09	83.52 ± 5.48	11.49 ± 1.34	17.68 ± 4.47	–
J0456.3–3131	0.87	F	88 ± 2.7	2.54 ± 0.1	9.24 ± 2.56	23.46 ± 4.31	3.51 ± 0.95	4.88 ± 2.91	–
J0457.0+0643	0.41	F	530 ± 18.8	2.55 ± 0.17	12.21 ± 5.73	14.92 ± 6.19	3.64 ± 1.13	–	–
J0457.0–2324	1	F	1730 ± 51.8	2.04 ± 0.02	187.57 ± 3.89	663.16 ± 10.88	148.05 ± 3.76	303.99 ± 15.51	34.55 ± 5.56
J0501.2–0157	2.29	F	2270 ± 67.9	2.41 ± 0.04	46.54 ± 3.6	107.76 ± 6.98	19.37 ± 1.72	37.38 ± 6.47	3.91 ± 2.32
J0502.5+0612	1.11	F	915 ± 27.5	2.71 ± 0.14	12.4 ± 6.38	36.88 ± 7.81	2.32 ± 1.15	6.65 ± 3.42	–
J0505.3+0459	0.95	F	987 ± 29.6	2.46 ± 0.05	49.05 ± 5.74	140.59 ± 11.19	25.27 ± 2.14	28.31 ± 5.84	3.9 ± 2.13
J0505.3–0422	1.48	F	213 ± 6.4	2.26 ± 0.11	5.57 ± 3.14	23.16 ± 8.57	4.93 ± 1.33	7.23 ± 3.91	–
J0505.5+0416	0.03	H	168 ± 6	1.91 ± 0.15	–	–	2.07 ± 1.28	19 ± 5.06	4.26 ± 2.34
J0505.9+6114	0.57	H	22 ± 0.8	2.01 ± 0.15	–	15.73 ± 6.05	1.73 ± 1.14	14.28 ± 4.33	2.9 ± 1.67
J0507.1–6102	1.09	F	1800 ± 390	2.52 ± 0.06	31.5 ± 3.65	47.12 ± 5.13	9.71 ± 1.19	15.88 ± 4.2	–
J0508.0+6736	0.31	H	26 ± 1.2	1.52 ± 0.04	–	28.08 ± 4.27	8.05 ± 1.14	59.64 ± 6.58	56.01 ± 5.55
J0509.3+1012	0.62	F	465 ± 14	2.56 ± 0.08	24.34 ± 4.94	35.97 ± 7.55	5.88 ± 1.51	10.64 ± 4.26	–
J0509.4+0541	0.57	I	536 ± 16.1	2.04 ± 0.03	42.22 ± 5.73	164.69 ± 9.08	43.15 ± 2.45	166.85 ± 12.01	45.96 ± 6.47
J0509.7–0400	0.3	H	71 ± 2.2	1.65 ± 0.23	–	–	–	–	4.57 ± 2.48
J0510.0+1802	0.42	F	705 ± 21.1	2.41 ± 0.07	25.9 ± 5.64	55.25 ± 8.33	10.31 ± 1.68	30.41 ± 6.17	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J0515.8+1526	0.57	L	27 ± 0.9	2.07 ± 0.07	15.6 ± 4.21	40.38 ± 7.87	9.84 ± 1.76	32.74 ± 6.3	13.84 ± 3.85
J0516.3+7351	0.25	H	58 ± 2.2	1.97 ± 0.14	6.57 ± 2.32	13.19 ± 3.93	1.63 ± 0.81	10.22 ± 3.44	4.85 ± 1.95
J0521.4–1740	0.35	F	459 ± 13.8	2.43 ± 0.11	8.99 ± 2.85	24.58 ± 5.1	3.6 ± 1.04	5.58 ± 3.39	–
J0521.7+2113	0.11	I	530 ± 15.9	1.92 ± 0.02	39.9 ± 6.31	156.06 ± 10.47	51.78 ± 2.83	209.89 ± 13.59	81.82 ± 8.04
J0525.3–4558	1.48	F	1710 ± 171	2.2 ± 0.16	–	8.63 ± 4.43	2.41 ± 0.95	11.17 ± 3.68	–
J0530.8+1330	2.07	F	1560 ± 46.7	2.25 ± 0.06	84.27 ± 5.43	215.29 ± 11.04	32.56 ± 2.63	40.53 ± 7.54	–
J0532.7+0732	1.25	F	2730 ± 81.9	2.2 ± 0.04	78.97 ± 4.94	234.03 ± 10.1	44.95 ± 2.61	101.6 ± 9.88	14.07 ± 3.87
J0533.2+4822	1.16	F	434 ± 13	2.39 ± 0.03	49.1 ± 3.63	126.41 ± 7.89	24.27 ± 1.98	47.17 ± 7.09	7.29 ± 2.58
J0538.8–4405	0.89	L	2890 ± 289	1.93 ± 0.01	215.66 ± 4.13	854.08 ± 11.77	243.5 ± 4.63	722.12 ± 23.04	175.2 ± 11.23
J0540.0–2837	3.1	F	863 ± 25.9	2.78 ± 0.06	36.48 ± 4.21	66.56 ± 5.97	4.7 ± 1.02	6.88 ± 3.17	–
J0540.4+5823	0.57	H	30 ± 1	2 ± 0.09	15.67 ± 3.4	14.74 ± 5.49	5.56 ± 1.22	23.46 ± 5.01	8.66 ± 2.62
J0558.1–3838	0.3	H	106 ± 4.2	1.96 ± 0.1	–	17.92 ± 4.81	2.93 ± 0.95	18.2 ± 4.63	7.49 ± 2.76
J0600.9–3943	1.66	F	462 ± 13.9	2.81 ± 0.13	21.71 ± 5.41	29.77 ± 7.27	2.13 ± 1	–	–
J0607.4+4739	0.57	I	381 ± 11.4	2.15 ± 0.04	29.13 ± 2.89	61.14 ± 5.91	19.77 ± 1.7	67.41 ± 7.63	14.51 ± 3.54
J0608.0–0835	0.87	F	2600 ± 80	2.37 ± 0.05	28.29 ± 4.78	99.15 ± 9.66	16.4 ± 2.06	35.74 ± 7	5.38 ± 2.76
J0609.4–0248	0.57	H	62 ± 1.9	1.9 ± 0.1	–	19.45 ± 8.02	7.13 ± 1.58	25.94 ± 5.95	11.9 ± 3.54
J0612.8+4122	0.57	I	248 ± 7.5	2.03 ± 0.03	26.09 ± 3.52	110.45 ± 6.89	34 ± 2.1	111.34 ± 9.56	39.94 ± 5.64
J0615.4-3116	0.57	I	174 ± 5.2	2.33 ± 0.11	14.45 ± 3.06	16.69 ± 4.65	3.27 ± 0.98	9.5 ± 3.61	2.73 ± 1.82
J0617.2+5701	0.57	L	463 ± 13.9	2.04 ± 0.06	8.59 ± 2.4	33.01 ± 4.55	7.14 ± 1.14	28.32 ± 4.96	12.02 ± 3.08
J0617.6–1717	0.32	I	364 ± 12.8	1.94 ± 0.08	7.76 ± 3.55	17.51 ± 5.75	5.65 ± 1.35	23.48 ± 5.64	14.17 ± 3.84
J0618.0+7819	1.43	F	157 ± 4.7	2.37 ± 0.15	7.41 ± 2.18	10.83 ± 3.9	1.27 ± 0.75	5.21 ± 2.54	–
J0622.4–2606	0.41	H	106 ± 3.2	1.94 ± 0.07	9.57 ± 3	23.97 ± 4.88	7.36 ± 1.28	16.97 ± 5.06	16.31 ± 3.98
J0625.2+4440	0.57	I	123 ± 3.7	2.05 ± 0.09	8.44 ± 2.7	18.64 ± 5.05	4.51 ± 1.08	22.15 ± 4.81	8.11 ± 2.76
J0629.4–1959	1.72	L	677 ± 20.3	2.18 ± 0.03	33.4 ± 3.51	110.84 ± 7.66	24.38 ± 2.02	77.72 ± 8.93	16.89 ± 4.11
J0630.9–2406	1.24	H	106 ± 3.2	1.81 ± 0.04	8.95 ± 4.51	57.99 ± 6.42	20.56 ± 1.73	94.34 ± 9.13	50.61 ± 6.69
J0634.7–2334	1.54	F	567 ± 17	2.54 ± 0.11	16.59 ± 5.21	25.66 ± 6.91	4.78 ± 1.21	–	–
J0635.7–7517	0.65	F	5420 ± 160	2.71 ± 0.05	45.24 ± 3.57	76.79 ± 6.19	10.4 ± 1.37	8.48 ± 3.33	–
J0638.6+7324	1.85	F	904 ± 27.1	2.64 ± 0.09	15.04 ± 2.75	26.79 ± 4.45	3.07 ± 0.87	7.02 ± 2.77	–
J0645.9–3914	0.68	F	315 ± 9.5	2.89 ± 0.19	13.73 ± 3.15	13.46 ± 5.43	1.64 ± 0.99	–	–
J0648.1–3045	0.46	F	899 ± 27	2.56 ± 0.07	29.67 ± 5.52	54.05 ± 7.02	7.33 ± 1.43	18.18 ± 5.35	–
J0648.8+1516	0.18	H	65 ± 2	1.83 ± 0.07	–	17.52 ± 7.2	9.04 ± 1.44	42.04 ± 6.9	18.3 ± 4.21
J0648.8–1740	1.23	F	1050 ± 31.4	2.52 ± 0.12	22.63 ± 7.16	30.61 ± 9.5	7.22 ± 1.87	7.72 ± 4.48	–
J0650.7+2503	0.2	H	97 ± 2.9	1.72 ± 0.05	5.5 ± 2.94	29.41 ± 5.37	11.15 ± 1.42	65.46 ± 7.8	33.26 ± 5.37
J0654.4+4514	0.93	F	383 ± 11.5	2.29 ± 0.03	38.49 ± 2.93	116.78 ± 6.35	22.75 ± 1.69	56.01 ± 6.88	9.5 ± 2.86
J0654.4+5042	1.25	F	198 ± 6	1.94 ± 0.07	9.71 ± 2.04	48.41 ± 4.74	15.09 ± 1.38	40.61 ± 5.93	6.65 ± 2.31
J0656.4+4232	0.06	H	954 ± 95.4	2.08 ± 0.11	7.19 ± 2.81	20.44 ± 4.7	2.88 ± 1.02	19.09 ± 4.93	3.97 ± 2.12
J0706.5+3744	0.57	H	27 ± 0.9	1.89 ± 0.06	4.95 ± 2.52	21.7 ± 4.44	7.53 ± 1.17	24.91 ± 4.99	14.37 ± 3.51
J0707.0+7741	0.57	I	38 ± 1.2	2.05 ± 0.05	9.78 ± 2.11	31.55 ± 3.82	10.53 ± 1.11	36.87 ± 5.12	7.63 ± 2.37
J0710.3+5908	0.13	H	159 ± 5.6	1.66 ± 0.09	3.73 ± 2.18	8.79 ± 3.31	3.16 ± 0.79	14.19 ± 3.55	13.91 ± 3.29
J0712.6+5033	0.5	L	189 ± 5.7	2.14 ± 0.05	12.47 ± 2.53	39.23 ± 4.65	9.74 ± 1.25	32.72 ± 5.4	8.84 ± 2.89

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J0713.9+1933	0.54	F	219 ± 6.6	2.13 ± 0.05	29.12 ± 3.61	113.78 ± 6.97	22.68 ± 1.81	44.52 ± 6.99	5.62 ± 2.6
J0719.3+3307	0.78	F	226 ± 6.8	2 ± 0.03	50.85 ± 2.9	182.18 ± 6.91	49.19 ± 2.27	117.94 ± 9.64	23.29 ± 4.48
J0721.4+0404	0.67	F	313 ± 9.4	2.53 ± 0.08	18.41 ± 4.02	42.3 ± 6.93	6.45 ± 1.47	8.72 ± 4.04	–
J0721.9+7120	0.3	L	727 ± 21.8	1.95 ± 0.01	148.37 ± 2.84	550.78 ± 8.37	160.74 ± 3.27	503.58 ± 16.61	120.38 ± 8.01
J0724.1+2857	0.97	F	28 ± 1.4	2.59 ± 0.11	8.35 ± 3.22	17.21 ± 5.18	–	7.58 ± 3.72	–
J0725.2+1425	1.04	F	1070 ± 32	2.09 ± 0.03	80.86 ± 3.43	243.82 ± 8.39	56.98 ± 2.58	126.85 ± 10.44	24.3 ± 4.76
J0730.2–1141	1.59	F	2760 ± 82.8	2.18 ± 0.02	227.02 ± 5.68	672.09 ± 14.27	142.88 ± 4.22	299.66 ± 16.3	51.35 ± 7.03
J0730.3+6720	0.17	F	57 ± 1.8	2.62 ± 0.15	9.69 ± 2.98	10.44 ± 3.68	2.18 ± 0.77	–	–
J0730.5+3307	0.11	I	9 ± 0.6	2.12 ± 0.12	–	19.12 ± 4.44	2.39 ± 0.87	8.04 ± 3.35	4.28 ± 2.32
J0733.8+4108	0.67	I	24 ± 0.9	2.22 ± 0.15	7.92 ± 2.32	–	2.77 ± 0.88	8.18 ± 3.44	3.76 ± 2.13
J0733.8+5021	0.72	F	770 ± 23.1	2.5 ± 0.11	14.12 ± 3	20.23 ± 4.41	3.45 ± 0.95	5.46 ± 2.88	–
J0738.1+1741	0.42	L	2260 ± 67.7	2.01 ± 0.02	33.76 ± 3.76	131.68 ± 6.88	37.52 ± 2.09	130.61 ± 10.48	49.67 ± 6.64
J0739.4+0137	0.19	F	2490 ± 80	2.25 ± 0.05	58.21 ± 3.48	163.87 ± 7.98	22.21 ± 1.89	33.71 ± 6.29	–
J0742.6+5444	0.72	F	282 ± 8.5	2.13 ± 0.03	53.3 ± 2.94	162.81 ± 6.16	37.75 ± 1.89	81.62 ± 7.46	11.11 ± 2.99
J0744.3+7434	0.32	H	23 ± 0.8	1.97 ± 0.11	9.05 ± 2.34	16.66 ± 3.32	2.13 ± 0.67	12.2 ± 3.46	8.61 ± 2.66
J0746.4+2540	2.98	F	427 ± 15.1	2.96 ± 0.1	27.08 ± 3.91	34.29 ± 5.49	2.99 ± 1.03	–	–
J0747.4+0904	2.06	H	40 ± 1.6	2.07 ± 0.15	–	–	2.51 ± 0.9	7.71 ± 3.47	–
J0748.3+2401	0.41	F	958 ± 28.7	2.16 ± 0.11	5.36 ± 3.3	16.5 ± 4.72	3.74 ± 1.08	11.44 ± 3.86	5.77 ± 2.57
J0750.6+1232	0.89	F	1490 ± 52.5	2.41 ± 0.07	13.61 ± 7.29	54.63 ± 6.88	6.34 ± 1.2	16.35 ± 4.55	–
J0753.1+5353	0.2	L	804 ± 24.1	2.11 ± 0.07	5.1 ± 2.95	29.03 ± 4.44	6.7 ± 1.06	20.15 ± 4.38	6.89 ± 2.43
J0754.8+4824	0.38	L	265 ± 8	2.14 ± 0.06	10.89 ± 3.09	33.57 ± 4.62	8.71 ± 1.16	23.67 ± 4.74	5.61 ± 2.32
J0757.0+0956	0.27	L	957 ± 33.8	2.18 ± 0.05	25.35 ± 3.37	59.25 ± 6.02	14.18 ± 1.53	34.63 ± 6.16	8.23 ± 3.03
J0758.1+1130	0.57	F	468 ± 14.1	2.16 ± 0.15	–	10.9 ± 4.81	1.72 ± 0.88	9.54 ± 3.91	–
J0800.9+4401	1.07	L	229 ± 6.9	2.38 ± 0.11	4.99 ± 2.67	16.24 ± 4.18	3.89 ± 0.96	9.37 ± 3.42	–
J0805.4+6144	3.03	F	829 ± 29.2	2.75 ± 0.06	24.46 ± 2.82	57.08 ± 4.75	4.39 ± 0.95	–	–
J0805.4+7534	0.12	H	53 ± 1.6	1.92 ± 0.05	6.31 ± 2.35	26.87 ± 3.5	9.08 ± 1.02	32.76 ± 4.87	18.74 ± 3.41
J0806.6+5933	0.3	H	61 ± 1.9	1.88 ± 0.15	4.32 ± 2.36	–	3.13 ± 0.85	–	4.29 ± 1.92
J0807.1–0541	0.57	I	545 ± 16.4	2.07 ± 0.06	–	39.74 ± 6.63	12.66 ± 1.57	39.26 ± 6.51	7.05 ± 3.03
J0807.9+4946	1.43	F	1110 ± 33.5	2.57 ± 0.14	5.61 ± 2.74	14.85 ± 4.4	3.63 ± 0.9	–	–
J0808.2–0751	1.84	F	1600 ± 47.9	1.96 ± 0.03	68.96 ± 4.52	257.32 ± 9.19	72.74 ± 2.97	195.18 ± 12.98	34.67 ± 5.84
J0809.5+4045	1.42	F	585 ± 17.5	2.65 ± 0.16	7.46 ± 2.94	14.43 ± 4.57	1.64 ± 0.83	5.33 ± 2.88	–
J0809.5+5342	2.13	F	141 ± 4.2	2.41 ± 0.1	5.46 ± 3.57	18.78 ± 4.3	3.49 ± 0.92	4.37 ± 2.62	–
J0809.6+3456	0.08	H	223 ± 7.6	1.67 ± 0.13	–	–	2.38 ± 0.82	12.45 ± 3.95	3.59 ± 2.02
J0809.8+5218	0.14	H	183 ± 5.5	1.88 ± 0.02	26.02 ± 3.19	75.69 ± 5.06	30.48 ± 1.73	120.24 ± 9.13	54.58 ± 6.16
J0811.3+0146	1.15	L	599 ± 23.5	2.16 ± 0.04	21.55 ± 5.01	76.28 ± 6.87	18.2 ± 1.66	56.43 ± 7.62	11.6 ± 3.45
J0812.0+0237	0.57	I	123 ± 4.7	1.72 ± 0.17	–	–	1.82 ± 0.97	9.25 ± 3.84	6.8 ± 2.76
J0812.9+5555	0.38	H	27 ± 1.2	2.11 ± 0.16	–	7.59 ± 3.58	1.72 ± 0.72	4.44 ± 2.52	–
J0814.1–1012	0.57	I	37 ± 1.2	2.07 ± 0.07	18.59 ± 5.14	35.02 ± 6.63	7.59 ± 1.51	30.8 ± 6.13	10.04 ± 3.48
J0814.5+2943	1.08	H	29 ± 1	1.94 ± 0.16	–	–	2.62 ± 0.89	8.13 ± 3.13	–
J0814.7+6428	0.24	L	89 ± 2.7	2.3 ± 0.04	24.63 ± 5.07	65.95 ± 5.77	12.04 ± 1.24	37.88 ± 5.3	9.37 ± 2.66
J0816.4–1311	0.05	H	72 ± 2.7	1.78 ± 0.05	–	36.2 ± 5.96	10.29 ± 1.48	66.56 ± 8.26	26.76 ± 5.16

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J0816.7+5739	0.05	H	100 ± 3	2.11 ± 0.06	11.42 ± 2.84	26.38 ± 4.13	8.23 ± 1.11	34.96 ± 5.32	5.42 ± 2.18
J0817.8-0935	0.57	I	467 ± 14	2.04 ± 0.06	–	30.78 ± 6.17	11.04 ± 1.55	33.19 ± 6.25	10.22 ± 3.32
J0818.2+4223	0.53	L	1090 ± 32.7	2.01 ± 0.03	48.05 ± 3.19	166.04 ± 6.55	48.66 ± 2.2	141.56 ± 10.28	23.4 ± 4.38
J0818.8+2751	0.39	L	234 ± 7	2.46 ± 0.15	5.93 ± 2.99	13.92 ± 4.37	1.76 ± 0.82	8 ± 3.46	–
J0820.4+3640	0.39	L	94 ± 2.9	2.28 ± 0.13	4.62 ± 2.51	17.94 ± 4.46	2.78 ± 0.89	7.2 ± 3.32	–
J0820.9–1258	0.07	I	1100 ± 32.9	2.27 ± 0.2	7.51 ± 4.67	–	1.75 ± 1.02	6.59 ± 3.26	–
J0822.9+4041	0.87	F	345 ± 10.4	2.49 ± 0.13	9.16 ± 4.38	19.86 ± 4.92	3.79 ± 0.98	–	–
J0824.1+2434	1.24	F	262 ± 7.9	2.52 ± 0.12	9.74 ± 3.94	21.49 ± 5.07	3.5 ± 0.98	6.8 ± 3.38	–
J0824.9+3916	1.22	F	1480 ± 44.4	2.44 ± 0.1	11.46 ± 3.54	15.06 ± 4.53	5.59 ± 1.03	7.8 ± 3.12	–
J0824.9+5551	1.42	F	1450 ± 43.5	2.61 ± 0.07	17.5 ± 3.19	43.06 ± 4.69	4.38 ± 0.96	9.39 ± 3.31	–
J0825.9–2230	0.91	I	520 ± 15.6	2 ± 0.03	30.35 ± 3.66	120.93 ± 7.13	33.5 ± 2.14	116.7 ± 10.06	43.5 ± 6.25
J0826.0+0307	0.51	L	1400 ± 42	2.03 ± 0.13	5.47 ± 3.09	11.49 ± 4.5	3.42 ± 0.97	15.56 ± 4.83	3.76 ± 2.16
J0828.5+5217	0.34	F	279 ± 9.8	2.13 ± 0.19	4.24 ± 2.36	–	1.41 ± 0.7	7.32 ± 3.03	–
J0829.3+0901	0.87	F	334 ± 10	1.95 ± 0.22	–	–	1.99 ± 0.86	6.11 ± 3.3	–
J0830.7+2408	0.94	F	739 ± 22.2	2.63 ± 0.05	35.6 ± 4.5	71.84 ± 5.96	8.52 ± 1.23	13.15 ± 4.08	–
J0831.9+0430	0.17	L	1240 ± 43.8	2.1 ± 0.05	30.36 ± 3.15	125.85 ± 6.64	25.97 ± 1.83	58.72 ± 7.57	9.28 ± 3.16
J0832.6+4914	0.55	L	344 ± 10.3	2.36 ± 0.17	–	11.32 ± 3.99	1.35 ± 0.76	4.48 ± 2.63	–
J0834.1+4223	0.25	F	249 ± 7.5	2.44 ± 0.08	15.04 ± 3.17	28.94 ± 4.5	4.33 ± 0.95	16.1 ± 4.13	–
J0834.7+4403	0.48	L	149 ± 4.5	2.22 ± 0.16	4.47 ± 2.69	–	2.73 ± 0.82	6.21 ± 3.12	–
J0835.4+0930	0.42	I	81 ± 3	2.29 ± 0.18	5.54 ± 3.38	12.11 ± 4.49	–	6.67 ± 3.23	–
J0836.5–2020	2.75	F	1970 ± 59.1	2.73 ± 0.11	18.54 ± 3.45	25.02 ± 5.95	2.77 ± 1.12	–	–
J0839.5+0102	1.12	F	422 ± 12.7	2.24 ± 0.1	–	17.65 ± 4.77	5.63 ± 1.13	12.62 ± 4.06	–
J0839.6+1803	0.28	I	411 ± 14.5	1.9 ± 0.17	–	–	1.58 ± 0.79	6.18 ± 3.15	5.4 ± 2.57
J0839.6+3538	0.42	L	76 ± 2.8	1.92 ± 0.12	–	7.39 ± 3.47	3.34 ± 0.91	13.24 ± 4.05	3.15 ± 1.97
J0841.4+7053	2.22	F	3820 ± 115	2.62 ± 0.05	89.29 ± 3.74	153.62 ± 6.85	11.62 ± 1.14	8.21 ± 2.94	–
J0843.9+5311	0.44	I	47 ± 1.5	2.24 ± 0.12	6.69 ± 2.62	11.94 ± 3.5	2.89 ± 0.78	11.92 ± 3.39	–
J0846.7–0651	0.57	L	184 ± 5.5	2.6 ± 0.15	8.59 ± 3.25	18.9 ± 4.83	2.73 ± 0.92	–	–
J0846.9–2336	0.06	H	145 ± 4.4	2.03 ± 0.07	9.74 ± 3.04	26.02 ± 5.76	7.99 ± 1.44	18.88 ± 5.12	15.72 ± 3.96
J0847.1+1134	0.2	H	33 ± 1.1	1.74 ± 0.11	–	6.7 ± 3.98	3 ± 0.92	13.72 ± 4.27	8.09 ± 2.9
J0849.1+6607	0.57	I	48 ± 1.5	2.02 ± 0.1	–	11.54 ± 3.72	3.35 ± 0.84	18.7 ± 4.01	2.82 ± 1.56
J0849.3+0458	1.07	I	184 ± 5.5	1.97 ± 0.12	–	13.64 ± 4.45	3.39 ± 1	14.16 ± 4.29	5.25 ± 2.69
J0850.2+3500	0.14	I	35 ± 1.2	1.92 ± 0.2	–	–	1.38 ± 0.72	8.32 ± 3.27	–
J0850.2–1214	0.57	F	324 ± 9.7	2.08 ± 0.05	31.56 ± 3.19	113.37 ± 6.71	29.59 ± 1.95	63.28 ± 7.98	7.94 ± 2.9
J0854.2+4408	0.38	I	80 ± 2.9	1.81 ± 0.19	–	–	–	8.17 ± 3.27	–
J0854.8+2006	0.31	L	1510 ± 45.4	2.12 ± 0.03	53.95 ± 5.23	190.15 ± 8.27	42.55 ± 2.2	117.18 ± 9.87	24.22 ± 4.64
J0856.5+2057	0.54	I	206 ± 6.2	2.19 ± 0.13	12.19 ± 6.34	17.64 ± 6.5	4.44 ± 1.15	11.97 ± 4.16	4.67 ± 2.46
J0856.7–1105	0.57	L	476 ± 14.3	2.05 ± 0.04	15.27 ± 3.33	63.5 ± 5.84	19.47 ± 1.68	63.6 ± 7.99	13.76 ± 3.77
J0859.1+6219	2.07	I	22 ± 0.8	2.43 ± 0.13	6.22 ± 2.56	16.08 ± 3.96	–	6.02 ± 2.66	–
J0902.4+2050	2.06	I	59 ± 2.2	2.1 ± 0.07	–	30.88 ± 5.14	10.06 ± 1.31	28.07 ± 5.54	8.29 ± 2.98
J0903.1+4649	1.46	F	1750 ± 52.7	2.61 ± 0.13	9.94 ± 2.51	18.85 ± 3.98	1.72 ± 0.73	7.86 ± 3.25	–
J0904.9+2739	1.49	F	181 ± 5.4	2.69 ± 0.18	9.68 ± 2.73	13.04 ± 4.48	1.24 ± 0.75	–	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J0905.5+1358	2.07	H	129 ± 3.9	1.84 ± 0.07	–	18.31 ± 4.37	6.96 ± 1.17	25.42 ± 5.49	13.04 ± 3.6
J0906.3-0906	0.57	L	74 ± 2.7	2.01 ± 0.09	4.68 ± 2.74	22.06 ± 4.65	5.63 ± 1.14	19.52 ± 4.88	6.72 ± 2.82
J0909.0+2310	1.18	H	47 ± 1.8	1.72 ± 0.12	–	8.9 ± 5.64	2.01 ± 1.02	18.07 ± 4.66	9.32 ± 3.18
J0909.1+0121	1.02	F	760 ± 22.8	2.46 ± 0.04	74.43 ± 8.11	179.42 ± 11.31	30.93 ± 2.21	62.28 ± 8.11	–
J0909.6+0157	1.58	L	157 ± 4.7	2.54 ± 0.1	–	56.1 ± 10.73	7.3 ± 1.6	18.05 ± 5.32	–
J0909.8–0229	0.96	F	625 ± 18.8	2.1 ± 0.08	15.57 ± 2.8	71.58 ± 5.65	14.49 ± 1.53	34.09 ± 5.97	–
J0910.5+3329	0.35	H	106 ± 3.8	1.98 ± 0.08	–	38.25 ± 6.14	7.54 ± 1.25	28.15 ± 5.43	12.42 ± 3.44
J0910.7+3858	0.2	L	7 ± 0.4	1.88 ± 0.21	–	–	1.35 ± 0.69	3.79 ± 2.33	–
J0910.9+2248	2.66	F	109 ± 3.3	2.35 ± 0.09	–	26.61 ± 6.68	6.49 ± 1.27	9.99 ± 3.96	–
J0911.8+3351	0.46	L	381 ± 11.4	2.1 ± 0.21	8.53 ± 3.43	–	2.32 ± 1	7.72 ± 3.5	3.53 ± 2.09
J0912.2+4126	2.56	F	346 ± 10.4	2.6 ± 0.15	12.88 ± 3.46	11.87 ± 4.03	2.19 ± 0.82	–	–
J0912.4+2800	1.55	H	4 ± 0.6	1.54 ± 0.2	–	–	1.08 ± 0.68	–	7.13 ± 2.85
J0912.9–2104	0.2	H	329 ± 12.3	1.94 ± 0.09	8.08 ± 4.03	19.24 ± 5.56	5.91 ± 1.27	26.85 ± 5.67	8.47 ± 3.07
J0915.8+2933	0.1	H	342 ± 10.3	1.88 ± 0.04	9.36 ± 2.57	35.43 ± 4.38	13.91 ± 1.33	49.35 ± 6.7	23.12 ± 4.52
J0916.3+3857	1.27	F	1010 ± 30.2	2.36 ± 0.16	–	12.05 ± 4.37	2.85 ± 0.84	–	–
J0920.9+4442	2.19	F	1020 ± 30.5	2.13 ± 0.03	75.72 ± 2.71	235.74 ± 6.77	47.9 ± 2.13	88.55 ± 8.06	8.6 ± 2.82
J0921.8+6215	1.45	F	946 ± 28.4	2.45 ± 0.05	20.94 ± 2.75	56.14 ± 4.35	9.48 ± 1.07	19.24 ± 4.09	–
J0922.4–0529	0.97	F	490 ± 17.3	2.17 ± 0.1	4.97 ± 2.87	11.39 ± 4.48	5.36 ± 1.13	13.63 ± 4.57	3.54 ± 2.26
J0923.3+4127	0.03	F	200 ± 6	2.25 ± 0.07	7.87 ± 2.8	30.6 ± 4.45	6.64 ± 1.05	13.92 ± 4	2.99 ± 1.86
J0924.0+2816	0.74	F	273 ± 9.6	2.63 ± 0.11	11.79 ± 2.92	22.6 ± 4.47	2.88 ± 0.85	6.43 ± 3.17	–
J0924.2+0534	0.57	H	8 ± 0.6	2.43 ± 0.12	8.26 ± 2.86	22.15 ± 5.12	–	8.06 ± 3.55	3.6 ± 2.17
J0925.6+5959	1.58	H	10 ± 1	1.65 ± 0.17	–	–	1.15 ± 0.6	6.03 ± 2.68	4 ± 1.82
J0925.7+3129	0.26	L	383 ± 11.5	2 ± 0.22	–	5.28 ± 3.15	–	6.78 ± 3.08	–
J0926.3+5409	0.85	I	38 ± 1.2	2.07 ± 0.19	–	8.52 ± 3.25	1.68 ± 0.69	5.79 ± 2.6	–
J0927.9–2037	0.35	F	843 ± 27.9	2.38 ± 0.09	8.33 ± 3.27	31.24 ± 5.13	4.89 ± 1.15	8.97 ± 3.61	–
J0928.5+4048	0.83	H	7 ± 0.4	1.84 ± 0.18	–	–	1.52 ± 0.71	4.59 ± 2.57	3.31 ± 1.93
J0929.4+5013	0.37	I	523 ± 15.7	2.16 ± 0.07	13.09 ± 3.38	32.44 ± 4.2	6.81 ± 1.19	15.73 ± 4.16	9.91 ± 3.12
J0930.0+4951	0.19	H	21 ± 0.8	1.45 ± 0.21	–	–	1.45 ± 0.9	–	7.52 ± 2.76
J0930.2+8612	0.57	L	143 ± 4.3	2.18 ± 0.05	10.02 ± 2.39	42.33 ± 4.55	11.2 ± 1.22	21.82 ± 4.5	6.47 ± 2.19
J0934.1+3933	0.04	L	121 ± 4.4	2.28 ± 0.12	–	11.8 ± 3.7	3.41 ± 0.9	8.36 ± 3.39	–
J0937.7+5008	0.28	F	167 ± 5	2.38 ± 0.14	6.06 ± 3.08	15.91 ± 3.87	2.55 ± 0.74	4.76 ± 2.59	–
J0940.9–1337	0.55	F	290 ± 8.7	2.41 ± 0.09	11.3 ± 2.79	32.06 ± 5.54	5.95 ± 1.15	7.81 ± 3.68	–
J0941.6+2727	1.31	F	178 ± 5.3	2.5 ± 0.13	7.97 ± 2.5	13.92 ± 3.98	2.54 ± 0.82	4.98 ± 2.75	–
J0942.1–0756	0.57	L	216 ± 6.5	2.07 ± 0.13	–	7.97 ± 4.06	3.61 ± 1	7.66 ± 3.7	–
J0945.9+5756	0.23	I	112 ± 3.9	2.33 ± 0.08	9.82 ± 2.2	19.55 ± 3.56	5.62 ± 0.92	11.98 ± 3.46	–
J0946.2+0103	0.58	I	15 ± 0.7	1.7 ± 0.23	–	–	–	–	6.08 ± 2.7
J0946.5+1017	1.01	F	411 ± 12.3	2.46 ± 0.05	27.75 ± 3.17	76.99 ± 5.92	11.29 ± 1.41	14.67 ± 4.36	–
J0948.6+4041	1.25	F	1600 ± 48	2.67 ± 0.11	12.76 ± 2.47	18.25 ± 4.05	2.86 ± 0.85	5.11 ± 2.62	–
J0950.1+4554	0.4	I	48 ± 1.5	1.95 ± 0.13	7.78 ± 2.15	6.63 ± 3.12	3.2 ± 0.76	9.46 ± 3.27	5.72 ± 2.42
J0953.0–0839	0.57	H	85 ± 2.6	1.81 ± 0.04	5.17 ± 2.39	34.04 ± 4.99	16.78 ± 1.58	59.35 ± 7.66	28.52 ± 5.38
J0954.2+4913	0.38	H	5 ± 0.1	1.33 ± 0.23	–	–	–	–	5.88 ± 2.35

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J0956.6+2515	0.71	F	1080 ± 32.4	2.44 ± 0.06	16.79 ± 3.28	41.66 ± 5.07	8.75 ± 1.21	11.84 ± 4	–
J0957.4+4728	1.88	F	604 ± 18.1	2.67 ± 0.12	5.15 ± 2.53	22.52 ± 3.95	2.43 ± 0.77	–	–
J0957.5–1351	1.32	F	363 ± 10.9	2.2 ± 0.14	15.04 ± 2.49	44.24 ± 5.76	8.11 ± 1.35	6.55 ± 3.41	–
J0957.6+5523	0.9	F	3700 ± 30	1.88 ± 0.02	55.37 ± 2.39	239.9 ± 6.2	75.99 ± 2.43	235.98 ± 12.11	63.72 ± 6.19
J0958.3–0318	0.57	H	8 ± 0.5	1.52 ± 0.21	–	–	–	5.66 ± 3.08	6.94 ± 2.98
J0958.6+6534	0.37	L	730 ± 21.9	2.38 ± 0.04	23.77 ± 2.31	57.21 ± 4.59	10.82 ± 1.17	24.82 ± 4.46	4.23 ± 1.86
J0959.7+2124	0.37	H	41 ± 1.6	2.15 ± 0.16	–	8.97 ± 4.49	3.05 ± 0.92	–	–
J1001.0+2913	0.56	L	197 ± 5.9	2.16 ± 0.08	8.66 ± 2.35	25.22 ± 4.15	4.34 ± 0.93	12.81 ± 3.93	6.81 ± 2.71
J1002.3+2220	1.99	H	14 ± 1	2.31 ± 0.17	3.79 ± 2.36	14.08 ± 4.81	1.42 ± 0.79	7.15 ± 3.32	–
J1006.7+3453	0.61	I	7 ± 0.5	1.66 ± 0.22	4.79 ± 2.49	–	0.9 ± 0.59	4.59 ± 2.58	3.74 ± 2.01
J1006.7–2159	0.33	F	231 ± 8.1	2.43 ± 0.05	25.58 ± 2.97	69.74 ± 5.98	10.1 ± 1.41	14.13 ± 4.17	6.48 ± 2.73
J1007.4–3334	1.84	F	390 ± 11.7	2.54 ± 0.14	5.95 ± 3.71	19.86 ± 5.7	2.5 ± 1.1	–	–
J1007.9+0621	1.72	L	507 ± 15.2	2.28 ± 0.06	11.37 ± 4.74	47.97 ± 6.12	9.71 ± 1.31	18.45 ± 4.76	5.63 ± 2.65
J1010.2–3120	0.14	H	74 ± 2.7	1.58 ± 0.1	9.87 ± 6.11	–	3.2 ± 1.26	27.85 ± 5.94	16.65 ± 4.07
J1010.8-0158	0.89	F	686 ± 20.6	2.38 ± 0.14	6.6 ± 2.83	15.37 ± 4.64	2.8 ± 1.02	6.16 ± 3.11	–
J1012.2+0631	0.73	I	536 ± 16.1	2.08 ± 0.11	9.61 ± 5.34	18.19 ± 5.9	4.59 ± 1.05	12.09 ± 4.13	6.28 ± 2.78
J1012.6+2439	1.81	F	102 ± 3.1	2.11 ± 0.05	30.91 ± 2.9	110.78 ± 6.03	25.09 ± 1.75	51.38 ± 6.94	2.69 ± 1.75
J1012.7+4229	0.37	H	80 ± 2.4	1.66 ± 0.13	3.76 ± 2.32	5.38 ± 2.91	1.37 ± 0.61	10.27 ± 3.34	5.46 ± 2.26
J1013.5+3440	1.41	F	356 ± 10.7	2.62 ± 0.11	8.49 ± 4.04	25.31 ± 4.45	2.4 ± 0.8	7.97 ± 3.16	–
J1015.0+4925	0.21	H	378 ± 11.4	1.83 ± 0.02	29.93 ± 2.11	123.25 ± 5.1	50.44 ± 2.11	193.14 ± 11.39	81.88 ± 7.29
J1016.0+0513	1.71	F	402 ± 12.1	2.12 ± 0.04	28.3 ± 3.85	81.5 ± 8.55	15.58 ± 1.71	60.91 ± 7.83	14.83 ± 3.86
J1018.3+3542	1.23	F	695 ± 1	2.55 ± 0.14	8.07 ± 3.35	15.76 ± 4.01	2.28 ± 0.79	4.32 ± 2.67	–
J1018.4–3119	0.79	F	379 ± 11.4	2.53 ± 0.09	8.48 ± 4.54	34.74 ± 5.94	4.64 ± 1.17	–	–
J1018.5+0530	1.94	F	278 ± 8.4	2.35 ± 0.09	–	31.19 ± 7.77	7.47 ± 1.42	10.04 ± 4.14	–
J1018.8+5913	2.03	I	98 ± 3	2.09 ± 0.15	3.92 ± 2.28	7.61 ± 2.94	2.06 ± 0.68	7.46 ± 2.8	3.28 ± 1.67
J1020.0+6323	2.03	L	109 ± 3.3	2.29 ± 0.11	–	17.69 ± 3.86	3.93 ± 0.79	4.02 ± 2.36	–
J1022.8–0113	2.05	H	36 ± 1.2	1.87 ± 0.09	–	–	5.05 ± 1.15	23.71 ± 5.46	4.94 ± 2.37
J1023.1+3952	1.25	F	1120 ± 33.7	2.73 ± 0.12	13.25 ± 3.07	25.59 ± 4.26	2.15 ± 0.77	–	–
J1023.7+3000	0.43	I	8 ± 0.4	1.75 ± 0.21	3.42 ± 2	–	–	6.47 ± 3.18	3.55 ± 2.03
J1024.1–3232	1.57	F	469 ± 16.6	2.46 ± 0.05	33.51 ± 3.93	73.1 ± 6.44	11.02 ± 1.44	16.76 ± 4.69	–
J1025.1+2333	0.16	L	109 ± 3.3	2.57 ± 0.14	9.81 ± 2.77	18.45 ± 4.29	1.19 ± 0.69	10.6 ± 3.92	–
J1026.4–8542	0.57	H	700 ± 70	2.01 ± 0.08	10.09 ± 3.02	19.8 ± 5.2	5.41 ± 1.17	23.4 ± 5.23	8.56 ± 2.86
J1026.9–1750	0.27	H	12 ± 0.6	1.92 ± 0.05	9.49 ± 2.72	30.68 ± 5.16	11.77 ± 1.45	44.08 ± 6.98	19.01 ± 4.29
J1027.0+0609	0.45	H	11 ± 0.6	2.09 ± 0.2	11.49 ± 2.97	–	2.88 ± 0.91	4.39 ± 2.92	–
J1027.7+6316	0.58	I	26 ± 0.9	2 ± 0.15	5.22 ± 1.94	–	1.93 ± 0.68	9.47 ± 2.97	–
J1028.5–0235	0.48	F	87 ± 2.7	2.4 ± 0.16	–	12.32 ± 4.8	1.76 ± 0.86	4.97 ± 3.1	–
J1031.2+5053	0.36	H	38 ± 1.2	1.71 ± 0.07	–	15.99 ± 3.17	4.13 ± 0.83	22.42 ± 4.4	14.11 ± 3.33
J1031.6+6021	1.23	F	321 ± 9.6	2.63 ± 0.12	24.47 ± 6.19	32 ± 7.56	4.94 ± 1.22	17.37 ± 4.61	–
J1032.7+3735	0.53	I	85 ± 2.6	2.33 ± 0.07	15.13 ± 2.46	31.67 ± 4.21	6.45 ± 1.04	17.5 ± 4.32	3.75 ± 2.23
J1033.2+4116	1.12	F	459 ± 0.7	2.32 ± 0.05	16.6 ± 2.49	56.77 ± 4.6	8.7 ± 1.1	28.43 ± 4.95	–
J1033.8+6051	1.4	F	462 ± 13.9	2.12 ± 0.04	39.04 ± 4.98	165.38 ± 8.03	42.73 ± 2.02	98.37 ± 8.05	13.22 ± 3.09

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1037.0–2934	0.31	F	1110 ± 33.4	2.49 ± 0.11	8.61 ± 4.8	30.54 ± 6.12	4.19 ± 1.16	9.13 ± 4.03	–
J1037.4–3742	1.82	F	329 ± 10.9	2.76 ± 0.16	10.26 ± 3.21	13.86 ± 5.18	2.54 ± 0.93	–	–
J1037.5+5711	0.83	I	72 ± 2.2	1.72 ± 0.05	11.15 ± 2.07	60.42 ± 4.08	23.48 ± 1.46	101.56 ± 8.09	35.39 ± 4.86
J1037.5–2821	1.07	F	409 ± 12.3	2.49 ± 0.08	21.41 ± 4.63	38.61 ± 6.18	7.25 ± 1.29	7.94 ± 3.59	–
J1041.8+3901	0.21	I	34 ± 1.1	1.97 ± 0.16	–	–	2.43 ± 0.78	–	–
J1043.1+2407	0.56	F	325 ± 9.8	2.24 ± 0.08	7.5 ± 3.54	31.69 ± 4.87	6.34 ± 1.1	14.26 ± 4.21	–
J1044.4+8058	1.25	F	828 ± 24.9	2.76 ± 0.12	–	29.33 ± 6.38	2.41 ± 0.77	–	–
J1045.7–2926	2.13	F	960 ± 28.8	2.46 ± 0.08	19.58 ± 3.83	35.58 ± 5.68	6.74 ± 1.27	15.29 ± 4.43	–
J1046.9–2531	0.25	H	14 ± 1	1.85 ± 0.18	–	–	1.39 ± 0.83	10.07 ± 3.88	–
J1047.6+7240	0.57	L	37 ± 1.2	2.06 ± 0.1	–	16.2 ± 5.45	4.58 ± 0.97	14.52 ± 3.7	4.77 ± 1.9
J1048.4+7144	1.15	F	737 ± 22.1	2.39 ± 0.03	46.4 ± 2.92	124.75 ± 6.37	25.62 ± 1.54	35.97 ± 5.11	6.27 ± 2.17
J1048.6+2338	0.32	H	26 ± 1.2	2.29 ± 0.1	–	28.56 ± 4.97	4.19 ± 0.98	10.88 ± 3.86	–
J1051.4+3941	0.5	I	9 ± 0.5	1.66 ± 0.17	3.88 ± 2.13	–	1.56 ± 0.69	5.94 ± 3.04	5.87 ± 2.48
J1051.8+0105	0.27	I	16 ± 0.7	2.07 ± 0.15	–	14.14 ± 5.15	1.89 ± 0.89	10.63 ± 4.06	–
J1053.7+4929	0.14	H	65 ± 2	1.8 ± 0.1	4.91 ± 1.84	6.49 ± 3.05	3.8 ± 0.83	19.11 ± 4.41	5.6 ± 2.37
J1054.5+2210	2.06	I	65 ± 2	2.2 ± 0.06	19.88 ± 3.84	45.39 ± 5.06	10.37 ± 1.27	28.28 ± 5.38	9.14 ± 3.05
J1057.3–2341	1.13	F	141 ± 4.3	2.32 ± 0.11	–	15.9 ± 5.04	6.95 ± 1.29	–	–
J1057.6–2754	0.09	H	64 ± 2	1.89 ± 0.18	–	7.25 ± 4.12	1.82 ± 0.89	6.26 ± 3.29	3.98 ± 2.33
J1058.1+7010	2.49	F	311 ± 9.3	2.7 ± 0.08	19.5 ± 3.2	32.3 ± 4.22	3.92 ± 0.82	–	–
J1058.4+8112	0.71	F	240 ± 7.2	2.67 ± 0.1	24.69 ± 6.98	25.79 ± 5.9	4.58 ± 0.91	3.78 ± 2.11	–
J1058.5+0133	0.89	L	3600 ± 90	2.17 ± 0.03	70.92 ± 5.92	219.2 ± 9.98	48.35 ± 2.5	116.41 ± 10.19	30.01 ± 5.4
J1058.5–8003	0.58	L	700 ± 230	2.13 ± 0.05	37.6 ± 3.49	136.79 ± 7.34	28.05 ± 1.95	61.21 ± 7.49	8.94 ± 2.86
J1058.6+5627	0.14	H	229 ± 6.9	1.95 ± 0.03	22.84 ± 2.07	78.83 ± 4.33	24.68 ± 1.46	80.69 ± 7.24	37.26 ± 5
J1059.2–1133	0.57	L	261 ± 7.8	2.14 ± 0.04	21.71 ± 2.79	76.3 ± 5.9	19.1 ± 1.65	67.66 ± 8.22	11.17 ± 3.47
J1059.9+2056	0.39	F	120 ± 3.6	2.57 ± 0.23	7.74 ± 3.34	8.3 ± 4.3	1.58 ± 0.81	–	–
J1100.5+4020	0.23	H	18 ± 0.7	1.84 ± 0.15	–	13.8 ± 4.57	2.02 ± 0.8	6.15 ± 3.09	8.98 ± 2.88
J1101.5+4106	2.07	H	22 ± 1.1	1.77 ± 0.17	–	–	1.76 ± 0.79	6.9 ± 3.03	5.56 ± 2.3
J1103.1+1155	0.91	F	263 ± 7.9	2.52 ± 0.09	13.21 ± 3.17	30.36 ± 4.98	4.41 ± 0.99	5.18 ± 3.05	–
J1103.9–5357	0.57	L	730 ± 73	2.11 ± 0.05	38.49 ± 5.58	124.99 ± 9.37	31.89 ± 2.33	76.34 ± 8.71	16.9 ± 3.99
J1104.3+0730	0.63	I	78 ± 2.4	2.19 ± 0.09	7.2 ± 2.9	26.1 ± 4.84	4.61 ± 1.06	11.1 ± 4.09	4.84 ± 2.5
J1104.4+3812	0.03	H	549 ± 27.4	1.77 ± 0.01	101.93 ± 3.01	479.58 ± 8.89	179.84 ± 3.89	823.39 ± 23.98	426.06 ± 17.1
J1105.9+2814	0.84	F	225 ± 6.8	2.47 ± 0.06	23.22 ± 2.65	36.93 ± 4.66	9.08 ± 1.22	13.45 ± 4.03	–
J1107.4–4447	1.6	F	2440 ± 244	2.71 ± 0.06	35.29 ± 5.55	66.39 ± 7.49	5.68 ± 1.34	15.85 ± 4.92	–
J1107.5+0223	1.08	I	21 ± 0.8	2.12 ± 0.13	–	16.77 ± 5.25	3.44 ± 1.04	5.41 ± 3.45	4.34 ± 2.32
J1107.8+1502	0.6	I	44 ± 1.4	1.99 ± 0.1	4.02 ± 2.52	12.26 ± 3.9	3.97 ± 0.96	21.15 ± 4.79	4.39 ± 2.24
J1109.4+2411	0.48	H	34 ± 1.4	1.89 ± 0.18	–	9.53 ± 3.55	1.65 ± 0.74	5.55 ± 2.79	5.2 ± 2.57
J1109.6+3734	0.4	I	4 ± 0.7	1.66 ± 0.22	–	–	–	5.19 ± 2.8	3.29 ± 1.9
J1110.0+7134	0.57	H	56 ± 2.1	2.03 ± 0.15	–	7.83 ± 3.39	1.67 ± 0.65	9.66 ± 2.85	2.22 ± 1.45
J1112.4+3449	1.96	F	166 ± 5	2.17 ± 0.08	17.94 ± 2.39	69.95 ± 5.2	11.87 ± 1.29	14.41 ± 4.29	–
J1112.6+1749	0.42	H	14 ± 0.6	1.47 ± 0.36	3.83 ± 2.22	–	–	–	3.24 ± 2
J1117.0+2014	0.14	H	103 ± 3.1	1.87 ± 0.05	6.88 ± 2.74	30.56 ± 4.33	11.42 ± 1.29	45.42 ± 6.57	18.74 ± 4.3
J1117.3+2546	0.36	H	13 ± 1	2.15 ± 0.18	–	–	2.7 ± 0.82	5.5 ± 2.77	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J1117.7–4632	0.71	F	2570 ± 90	2.43 ± 0.09	7.47 ± 4.77	42.35 ± 6.86	3.44 ± 1.23	–	–
J1117.9+5355	0.72	H	13 ± 0.6	1.93 ± 0.08	5.19 ± 1.91	12.81 ± 3.18	5.07 ± 0.88	19.45 ± 4.13	7.5 ± 2.39
J1119.7–3046	0.41	H	9 ± 1	1.54 ± 0.23	–	–	–	6.32 ± 3.45	3.82 ± 2.19
J1120.8+4212	0.12	H	24 ± 0.9	1.62 ± 0.06	4.25 ± 1.81	11.5 ± 3.21	5.82 ± 0.97	35.67 ± 5.7	24.69 ± 4.47
J1121.4–0554	1.3	F	588 ± 17.7	2.37 ± 0.04	32.64 ± 4.97	102.6 ± 7.13	17.74 ± 1.66	41.98 ± 6.66	–
J1124.1+2337	1.55	F	526 ± 15.8	2.46 ± 0.1	11.12 ± 2.77	22.68 ± 4.37	3.21 ± 0.9	10.86 ± 3.96	–
J1124.9+4932	2.15	H	21 ± 1	1.8 ± 0.15	4.17 ± 1.94	–	1.4 ± 0.62	7.41 ± 2.98	5.49 ± 2.19
J1125.5–3558	0.28	I	208 ± 7.2	1.88 ± 0.09	–	14.15 ± 5.4	5.81 ± 1.21	23.83 ± 5.37	10.31 ± 3.36
J1125.8–0745	0.28	H	39 ± 1.6	1.95 ± 0.18	–	–	2.94 ± 1.03	6.4 ± 3.54	–
J1125.9+2007	0.13	F	689 ± 24.3	2.31 ± 0.15	–	12.28 ± 4	2 ± 0.82	7.96 ± 3.4	–
J1127.0–1857	1.05	F	537 ± 16.1	2.12 ± 0.03	80.74 ± 3.75	263.15 ± 8.28	59.17 ± 2.6	122.58 ± 10.39	20.98 ± 4.47
J1127.8+3618	0.88	F	76 ± 3.8	2.35 ± 0.07	10.06 ± 5.6	42.52 ± 5.67	6.81 ± 1.11	13.19 ± 3.87	3.3 ± 1.95
J1128.0+5921	1.8	F	302 ± 9.1	2.72 ± 0.17	7.54 ± 3.23	12.56 ± 3.61	2.07 ± 0.69	–	–
J1129.0+3705	0.45	L	61 ± 1.9	2.08 ± 0.13	–	12.1 ± 5.59	2.95 ± 0.93	11.49 ± 3.55	–
J1129.9–1446	1.18	F	6330 ± 120	2.79 ± 0.05	45.66 ± 3.62	63.56 ± 6.07	8.99 ± 1.33	5.46 ± 3.31	–
J1131.1+5810	0.36	I	44 ± 1.7	2.28 ± 0.12	8.94 ± 2.93	14.99 ± 3.55	2.13 ± 0.68	13.03 ± 3.28	–
J1131.4+3819	1.74	F	703 ± 21.1	2.57 ± 0.12	18.26 ± 5.15	23.69 ± 6.62	2.42 ± 0.96	7.01 ± 3.45	–
J1132.7+0034	1.22	I	470 ± 14.1	2.07 ± 0.04	16.43 ± 2.86	59.73 ± 5.51	15.17 ± 1.51	43.03 ± 6.66	16.02 ± 4.12
J1132.8+1015	0.54	F	880 ± 26.4	2.72 ± 0.17	10.61 ± 2.94	14.28 ± 4.87	1.61 ± 0.99	–	–
J1136.4+3405	1.34	F	137 ± 4.1	2.83 ± 0.12	14.01 ± 2.82	21.42 ± 4.51	1.3 ± 0.73	4.33 ± 2.62	–
J1136.6+6736	0.14	H	46 ± 1.4	1.72 ± 0.08	5.05 ± 1.71	7.8 ± 2.59	3.69 ± 0.77	19.62 ± 3.89	8.83 ± 2.49
J1136.6+7009	0.05	H	328 ± 12	1.82 ± 0.05	4.5 ± 1.84	24.19 ± 3.14	8.15 ± 0.97	31.27 ± 4.74	19.51 ± 3.53
J1140.4+1529	0.24	H	70 ± 2.1	1.26 ± 0.28	–	–	–	–	3.34 ± 2.08
J1142.0+1546	0.3	L	334 ± 10	2.3 ± 0.09	–	23.39 ± 4.65	5.12 ± 1.08	11.76 ± 4.25	4.93 ± 2.41
J1143.0+6123	0.48	L	84 ± 2.6	2.02 ± 0.07	5.6 ± 2.27	18.23 ± 3.44	6.57 ± 0.94	23.72 ± 4.34	3.76 ± 1.72
J1145.8+4425	0.3	F	363 ± 10.9	1.85 ± 0.2	–	–	1.53 ± 0.64	–	–
J1146.8+3958	1.09	F	331 ± 10	2.32 ± 0.03	49.46 ± 3.1	136.98 ± 6.15	27.83 ± 1.71	55.44 ± 6.93	9.07 ± 2.92
J1147.0–3811	1.05	F	1800 ± 54.1	2.25 ± 0.05	21.63 ± 2.94	62.47 ± 6.03	13.46 ± 1.53	35.38 ± 6.32	6.35 ± 2.72
J1147.8–0725	1.34	F	740 ± 22.2	2.32 ± 0.06	14.97 ± 7.08	59.59 ± 6.72	11.17 ± 1.45	24 ± 5.39	5.45 ± 2.55
J1150.3+2417	0.18	I	798 ± 23.9	2.21 ± 0.06	14.49 ± 7.32	41.14 ± 7.37	9.9 ± 1.49	35.14 ± 6	4.6 ± 2.42
J1150.5+4155	1.02	H	22 ± 1.1	1.76 ± 0.04	5.7 ± 2.28	32.35 ± 4.04	12.83 ± 1.24	56.12 ± 6.88	37.02 ± 5.35
J1151.4+5858	0.12	I	185 ± 5.6	1.92 ± 0.08	7.75 ± 2.56	12.98 ± 3.29	5.49 ± 0.92	17.06 ± 3.84	11.2 ± 2.86
J1151.4–1346	0.84	L	35 ± 1.2	1.98 ± 0.17	–	8.43 ± 4.49	–	12.17 ± 4.19	4.5 ± 2.36
J1152.3-0841	2.37	F	698 ± 20.9	2.44 ± 0.08	21.4 ± 4.53	38.19 ± 5.93	6.7 ± 1.31	12.32 ± 4.15	4.21 ± 2.68
J1153.4+4033	0.93	F	1140 ± 34.1	1.77 ± 0.16	–	–	1.45 ± 0.72	7.9 ± 3.19	3.23 ± 1.84
J1153.4+4932	0.33	F	1570 ± 47.2	2.38 ± 0.03	40.69 ± 2.64	96.1 ± 5.09	18.69 ± 1.41	46.33 ± 6.11	2.48 ± 1.58
J1154.2–0010	0.25	H	11 ± 1	1.68 ± 0.15	–	–	1.97 ± 0.9	9.99 ± 3.64	10.79 ± 3.5
J1158.8+0941	0.39	I	34 ± 1.1	2.04 ± 0.1	–	17.93 ± 4.76	4.6 ± 1.06	14.51 ± 4.57	8.08 ± 3.05
J1159.2–2141	0.62	F	321 ± 9.6	2.36 ± 0.07	22.47 ± 7.02	57.53 ± 8.14	9.87 ± 1.51	17.38 ± 4.96	5.34 ± 2.47
J1159.5+2914	0.73	F	1630 ± 47.8	2.09 ± 0.03	86.06 ± 3.29	281.75 ± 7.67	67.85 ± 2.57	144.57 ± 10.56	32.04 ± 5.3

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1203.1+6029	0.07	I	191 ± 5.7	2.21 ± 0.08	15.5 ± 3.66	18.33 ± 3.87	6.6 ± 0.96	20.07 ± 4.02	3.03 ± 1.7
J1203.2+3847	0.81	I	16 ± 0.8	2.43 ± 0.18	4.72 ± 2.43	11.74 ± 3.92	–	8.06 ± 3.11	–
J1204.0+1144	0.3	H	15 ± 0.7	1.88 ± 0.13	–	6.82 ± 4.31	3.23 ± 0.99	14.97 ± 4.49	4.74 ± 2.39
J1205.4+0412	1.88	F	134 ± 4	2.64 ± 0.16	9.49 ± 3.27	–	3.99 ± 1.02	–	–
J1205.8–2636	0.79	F	1650 ± 58.3	2.54 ± 0.08	18.78 ± 4.51	41.77 ± 6.41	6.12 ± 1.26	9.28 ± 3.98	3.03 ± 2.01
J1208.7+5442	1.35	F	302 ± 9.1	2.54 ± 0.04	41.26 ± 2.49	85.81 ± 4.86	14.26 ± 1.24	22.22 ± 4.4	–
J1209.4+4119	0.38	L	274 ± 8.2	1.94 ± 0.12	5.56 ± 2.12	7.03 ± 3.24	2.14 ± 0.78	15.82 ± 3.99	4 ± 2
J1212.6+5135	0.8	H	36 ± 1.2	2.19 ± 0.15	4.76 ± 2.29	6.07 ± 3.21	2.52 ± 0.78	4.22 ± 2.59	–
J1213.1–2619	0.28	H	7 ± 0.5	1.89 ± 0.2	–	13.12 ± 5.02	–	6.62 ± 3.59	6.77 ± 2.87
J1215.0+5002	1.55	I	87 ± 2.6	1.92 ± 0.11	–	12.96 ± 3.46	2 ± 0.71	15.25 ± 3.76	3.16 ± 1.84
J1215.1+1658	1.13	F	299 ± 9	2.32 ± 0.09	–	26.73 ± 5.03	5.11 ± 1.06	5.32 ± 2.92	–
J1217.8+3007	0.13	H	374 ± 18.7	1.97 ± 0.02	43.6 ± 3.57	135.98 ± 7.98	44.32 ± 2.3	149.21 ± 11	45.38 ± 6.19
J1218.0–0029	0.42	L	452 ± 16	2.39 ± 0.1	14.78 ± 6.66	30.85 ± 6.7	6.11 ± 1.31	6 ± 3.32	–
J1218.4–0121	0.42	L	244 ± 7.3	2.2 ± 0.08	–	33.74 ± 6.84	10.03 ± 1.49	16.46 ± 4.67	7.83 ± 3.12
J1219.7–0314	0.3	I	29 ± 1	2 ± 0.12	–	12.2 ± 4.96	4.35 ± 1.14	14.48 ± 4.41	4.04 ± 2.31
J1220.2+3434	0.64	L	251 ± 7.5	2.19 ± 0.11	5.14 ± 2.22	14.47 ± 3.73	4.13 ± 0.89	9 ± 3.26	–
J1221.3+3010	0.18	H	72 ± 2.2	1.66 ± 0.04	–	40.69 ± 7.4	16.44 ± 1.78	101.81 ± 9.43	58.24 ± 6.91
J1221.4+2814	0.1	I	732 ± 22	2.1 ± 0.03	32.49 ± 3.48	117.39 ± 6.31	31.35 ± 1.88	97.11 ± 8.79	19.4 ± 4.2
J1222.4+0414	0.97	F	801 ± 24	2.51 ± 0.09	61.6 ± 4.53	122 ± 7.46	11.27 ± 1.49	5.68 ± 3.34	–
J1222.7+8041	0.57	L	705 ± 21.2	2.29 ± 0.05	12.11 ± 2.36	39.97 ± 4.82	7.35 ± 1.06	20.78 ± 4.11	–
J1224.5+2436	0.22	H	26 ± 1.2	1.89 ± 0.09	8.43 ± 3.54	9.45 ± 4.12	4.75 ± 1	24.04 ± 5	5.66 ± 2.48
J1224.5+4957	1.06	F	47 ± 1.5	2.46 ± 0.13	7.24 ± 3.76	18.96 ± 4.2	1.41 ± 0.71	7.58 ± 3.21	–
J1224.6+4332	1.07	L	367 ± 11	2.64 ± 0.09	12.72 ± 2.34	23.39 ± 3.93	3.28 ± 0.84	5.83 ± 2.82	–
J1224.9+2122	0.43	F	2100 ± 73.9	2.19 ± 0.01	351.66 ± 4.73	1022.61 ± 12.89	205.07 ± 4.28	433.6 ± 18.18	68.38 ± 7.5
J1226.8+0638	1.99	H	17 ± 1.1	1.56 ± 0.24	–	–	–	6.88 ± 3.34	–
J1226.9–1329	0.46	L	146 ± 4.4	1.98 ± 0.09	19.41 ± 4.29	–	9.46 ± 1.5	27.51 ± 5.8	5.49 ± 2.73
J1228.7+4857	1.72	F	387 ± 11.6	2.36 ± 0.12	–	18.47 ± 5.08	4.12 ± 0.95	–	2.93 ± 1.69
J1229.1+0202	0.16	F	41300 ± 1230	2.52 ± 0.02	380.2 ± 6.14	729.91 ± 12.47	86.45 ± 3.08	82.62 ± 8.93	7.82 ± 3.02
J1230.3+2519	0.14	I	244 ± 7.3	2.24 ± 0.06	7.41 ± 3.49	43.92 ± 5.08	8.89 ± 1.24	22.44 ± 4.89	4.07 ± 2.1
J1231.5+6414	0.16	H	59 ± 2.2	1.94 ± 0.2	–	–	1.8 ± 0.66	–	4.05 ± 1.87
J1231.7+2847	0.24	I	142 ± 5.5	1.95 ± 0.04	16.21 ± 2.98	56.85 ± 5.05	18.93 ± 1.5	70.95 ± 7.81	23.88 ± 4.61
J1233.7–0145	2.15	I	29 ± 1.3	2.22 ± 0.08	16.96 ± 3.99	31.95 ± 5.69	7.96 ± 1.32	19.15 ± 5.09	10.45 ± 3.49
J1236.6+3901	0.39	I	37 ± 1.5	2.49 ± 0.2	8.31 ± 2.38	–	1.57 ± 0.72	3.99 ± 2.44	–
J1237.9+6258	0.3	H	13 ± 0.6	1.84 ± 0.22	5.06 ± 1.96	–	1.12 ± 0.54	5.39 ± 2.38	2.78 ± 1.57
J1241.6–1456	0.57	H	17 ± 0.7	1.96 ± 0.17	8.01 ± 3.07	–	2.17 ± 0.93	11.17 ± 3.97	–
J1241.9+0639	0.15	H	17 ± 0.7	1.78 ± 0.24	–	7.22 ± 4.73	–	8.11 ± 3.32	3.81 ± 2.21
J1243.1+3627	1.07	H	148 ± 4.5	1.77 ± 0.04	7.22 ± 2.61	26.48 ± 3.81	12.16 ± 1.25	54.55 ± 6.88	28.99 ± 4.94
J1244.8+5707	1.54	I	84 ± 2.6	2.07 ± 0.15	–	8.45 ± 3.43	2.86 ± 0.79	3.66 ± 2.3	3.42 ± 1.74
J1246.7–2547	0.63	F	1170 ± 35	2.14 ± 0.02	119.24 ± 4.02	383.31 ± 9.76	83.27 ± 3.04	161.64 ± 11.82	19.31 ± 4.46
J1247.0+4421	1.81	H	11 ± 0.9	2.06 ± 0.25	4.04 ± 1.95	7.27 ± 3.19	–	6.55 ± 2.99	3.52 ± 1.94
J1248.0+5130	0.35	I	115 ± 4.1	2.16 ± 0.17	4.73 ± 2.61	–	2.18 ± 0.72	6.09 ± 2.94	–
J1248.2+5820	0.85	I	245 ± 7.4	1.95 ± 0.03	21.17 ± 2.97	82.22 ± 4.65	27.6 ± 1.57	101.75 ± 8.02	38.69 ± 5.04
J1249.7+3705	0.57	H	6 ± 0.6	1.65 ± 0.1	–	–	2.7 ± 0.78	18.63 ± 4.61	7.38 ± 2.72

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J1250.5+0217	0.96	L	341 ± 10.2	2.33 ± 0.16	6.86 ± 4.09	15.39 ± 5.23	2.31 ± 0.92	8.21 ± 3.95	3.32 ± 2.2
J1253.2+5300	0.45	L	488 ± 17.2	1.9 ± 0.05	17.26 ± 4.04	81.81 ± 6.14	29.11 ± 1.74	103.22 ± 8.39	25.75 ± 4.32
J1253.7+0327	0.07	H	107 ± 3.2	1.84 ± 0.1	–	15.01 ± 4.56	5.17 ± 1.1	12.97 ± 4.27	9.97 ± 3.32
J1254.1+6240	0.87	H	12 ± 0.6	1.9 ± 0.15	–	–	2.37 ± 0.63	6.12 ± 2.65	2.91 ± 1.63
J1256.1–0547	0.54	F	9000 ± 220	2.23 ± 0.01	335.78 ± 5.17	909.81 ± 13.82	164.89 ± 4.1	331.59 ± 16.62	50.8 ± 6.76
J1256.9+3649	0.53	H	73 ± 2.2	2.08 ± 0.09	4.75 ± 2.84	17.55 ± 3.86	5.44 ± 0.95	12.84 ± 3.95	5.3 ± 2.49
J1258.0+6120	0.22	I	10 ± 0.6	2.1 ± 0.21	4.43 ± 1.91	–	1.34 ± 0.64	5.44 ± 2.55	2.27 ± 1.33
J1258.1+3233	0.81	F	596 ± 59.6	2.47 ± 0.09	15.59 ± 3.67	30.75 ± 4.8	3.71 ± 0.88	9.85 ± 3.49	–
J1300.2+1416	1.11	F	559 ± 16.8	2.86 ± 0.09	29.88 ± 3.58	29.94 ± 5.23	2.72 ± 0.96	5.69 ± 3.55	–
J1303.0+2435	0.99	L	123 ± 3.7	2.18 ± 0.04	14.11 ± 3.2	62.38 ± 5.04	15.93 ± 1.42	37.32 ± 6.09	8.34 ± 2.89
J1304.8–0338	1.25	F	827 ± 24.8	2.28 ± 0.19	6.29 ± 3.92	–	2.62 ± 1	–	–
J1305.5+7854	0.57	L	288 ± 8.6	2.38 ± 0.1	5.36 ± 3	16.93 ± 3.73	3.32 ± 0.77	6.03 ± 2.42	–
J1308.7+3545	1.06	F	220 ± 22	2.36 ± 0.09	8.72 ± 2.86	23.05 ± 4.19	4.95 ± 1	11.06 ± 3.79	–
J1309.3+4304	0.69	H	60 ± 1.9	1.94 ± 0.05	12.43 ± 2.04	27.92 ± 3.89	12.02 ± 1.2	55.14 ± 6.76	12.56 ± 3.31
J1309.5+1154	0.42	L	856 ± 25.7	2.14 ± 0.11	–	16.4 ± 5.28	3.62 ± 1	18.91 ± 4.77	–
J1310.2–1159	0.14	H	83 ± 2.5	1.8 ± 0.19	–	–	2.4 ± 1	–	6.95 ± 2.85
J1310.6+3222	1	F	1690 ± 50.6	2.15 ± 0.04	44.49 ± 3	123.8 ± 5.88	30.42 ± 1.8	67.23 ± 7.6	8.62 ± 2.84
J1311.0+0036	0	H	18 ± 0.7	1.55 ± 0.28	–	–	–	–	6.87 ± 2.94
J1312.5–2155	1.49	H	350 ± 10.5	2.07 ± 0.05	11.5 ± 4.71	42.16 ± 6.39	15.48 ± 1.7	44.59 ± 7.05	7.08 ± 2.79
J1312.8–0424	0.82	F	227 ± 6.8	2.49 ± 0.06	19.98 ± 3.92	53.59 ± 5.98	8.41 ± 1.29	13.53 ± 4.35	–
J1314.8+2349	2.15	I	205 ± 20.5	2.05 ± 0.06	5.99 ± 3.9	33.64 ± 4.81	11.38 ± 1.29	32.35 ± 5.69	9.34 ± 3
J1316.0–3338	1.21	F	1280 ± 38.3	2.32 ± 0.04	29.8 ± 4.95	97.96 ± 7.81	19.31 ± 1.8	39.91 ± 6.62	7.38 ± 2.96
J1317.8+3429	1.06	F	529 ± 15.9	2.58 ± 0.14	7.1 ± 2.82	14.49 ± 4	1.97 ± 0.79	5.83 ± 2.94	–
J1319.3+1402	0.57	H	77 ± 2.8	1.87 ± 0.24	–	–	1.17 ± 0.75	5.07 ± 2.93	–
J1321.0+2215	0.94	F	314 ± 9.4	2.42 ± 0.06	23.6 ± 4.63	59.79 ± 5.92	9.95 ± 1.3	25.83 ± 5.32	–
J1322.8–0938	1.86	F	404 ± 12.1	2.63 ± 0.07	28.1 ± 3.75	41.32 ± 5.71	7.75 ± 1.31	–	–
J1322.9+0435	0.22	H	37 ± 1.2	1.74 ± 0.2	3.83 ± 2.45	–	1.38 ± 0.83	10.23 ± 3.8	3.02 ± 1.92
J1323.9+1405	0.77	I	31 ± 1.3	2.08 ± 0.14	–	8.67 ± 4.6	3.21 ± 0.98	7.99 ± 3.65	3.11 ± 2.06
J1326.8+2211	1.4	F	5 ± 0.5	2.33 ± 0.06	32.38 ± 3.89	83.09 ± 6.14	14.25 ± 1.42	18.61 ± 4.71	–
J1327.9+2524	2.23	I	10 ± 1.1	1.68 ± 0.31	5.23 ± 2.33	–	–	–	2.84 ± 1.85
J1330.0–3818	0.03	F	53 ± 0.9	2.78 ± 0.14	23.17 ± 4.98	24.95 ± 6.33	2.96 ± 1.13	–	–
J1330.6+7002	0.57	I	21 ± 0.8	1.84 ± 0.12	40.68 ± 5.26	151.44 ± 8.99	30.94 ± 2.23	51.9 ± 7.3	10.62 ± 3.13
J1331.5+1711	0.41	L	181 ± 5.4	2.76 ± 0.13	16.93 ± 3.03	22.89 ± 5	2.33 ± 0.89	10.47 ± 4.04	–
J1331.8+4718	0.67	F	234 ± 7	2.53 ± 0.1	8.87 ± 2.5	23.55 ± 4.1	2.7 ± 0.81	4.15 ± 2.66	–
J1332.0–0508	2.15	F	528 ± 15.8	2.45 ± 0.03	109.68 ± 8.08	292.5 ± 10.83	44.74 ± 2.48	34.04 ± 6.17	5.67 ± 2.55
J1332.6–1256	1.49	F	127 ± 3.8	2.42 ± 0.05	29.93 ± 8.22	99.1 ± 10.3	14.21 ± 1.79	30.1 ± 6.08	7.43 ± 2.9
J1332.8+2723	2.13	F	218 ± 6.6	2.38 ± 0.11	5.67 ± 2.79	14.69 ± 3.99	4.44 ± 0.95	8.55 ± 3.47	–
J1333.7+5057	1.36	F	75 ± 7.5	2.5 ± 0.07	15.52 ± 3.41	36 ± 4.37	4.86 ± 0.91	13.7 ± 3.76	–
J1335.4–2949	0.25	I	11 ± 0.6	2.05 ± 0.14	–	14.51 ± 4.81	1.95 ± 0.94	13.9 ± 4.63	–
J1337.6–1257	0.54	F	2680 ± 80.3	2.37 ± 0.08	34.75 ± 4.9	70.04 ± 7.23	13.27 ± 1.65	15.67 ± 4.74	3.63 ± 2.23

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1338.9+6532	0.94	F	211 ± 6.3	3.02 ± 0.14	12.82 ± 2.25	14.51 ± 3.57	1.36 ± 0.63	–	–
J1339.0+1153	1.59	I	16 ± 0.7	1.97 ± 0.1	–	20.12 ± 4.38	3.05 ± 0.93	12.96 ± 4.25	10.41 ± 3.16
J1339.8–0133	1.62	F	176 ± 5.3	2.47 ± 0.14	5.4 ± 3.03	19.03 ± 4.95	3.49 ± 1.06	–	–
J1340.6+4412	0.55	H	51 ± 5.1	1.93 ± 0.25	6.33 ± 4.06	8.61 ± 4.84	–	–	4.36 ± 2.06
J1341.5+5517	0.21	H	38 ± 1.5	2.56 ± 0.17	6.28 ± 2.62	14.49 ± 3.53	–	4.27 ± 2.4	–
J1341.9–2053	1.58	F	400 ± 12	2.65 ± 0.08	20.58 ± 3.49	51.37 ± 6.49	6.32 ± 1.38	5.83 ± 3.68	–
J1343.6+5753	0.93	F	117 ± 3.5	2.41 ± 0.23	7.74 ± 2.29	6.35 ± 2.98	–	4.78 ± 2.39	–
J1344.2–1724	2.49	F	340 ± 10.2	2.04 ± 0.05	23.47 ± 3.13	95.36 ± 6.92	24.85 ± 1.94	64.47 ± 8.16	10.81 ± 3.43
J1345.6+4453	2.53	F	294 ± 8.8	2.2 ± 0.03	81.89 ± 4.12	259.39 ± 7.66	50.66 ± 2.19	116.6 ± 9.24	17.94 ± 3.75
J1345.8+0704	1.09	F	138 ± 4.2	2.31 ± 0.06	10.03 ± 2.89	41.48 ± 5.37	9.87 ± 1.37	14.75 ± 4.48	–
J1349.6–1133	0.34	F	523 ± 18.3	2.39 ± 0.06	24.63 ± 4.45	57.88 ± 6.48	12.92 ± 1.57	21.21 ± 5.17	–
J1350.8+3035	0.71	F	322 ± 9.7	2.37 ± 0.05	12.96 ± 2.35	52.06 ± 4.67	7.91 ± 1.12	19.77 ± 4.59	–
J1351.1+0030	2.08	F	317 ± 9.5	2.31 ± 0.13	6.46 ± 3.69	12.03 ± 4.94	4.51 ± 1.05	8.8 ± 3.76	–
J1351.4+1115	2	H	43 ± 1.4	1.71 ± 0.1	–	7.18 ± 3.89	4.17 ± 1.05	16.66 ± 4.58	15.05 ± 4
J1353.1–4414	0.05	L	480 ± 48	2.59 ± 0.1	22.25 ± 3.82	25.01 ± 6.16	4.15 ± 1.21	15.04 ± 4.81	–
J1353.2+1435	0.41	L	393 ± 39.3	2.34 ± 0.1	10.62 ± 2.93	26.6 ± 4.92	3.72 ± 0.95	10 ± 3.89	3.5 ± 2.1
J1354.5+3705	0.38	I	25 ± 0.9	2.26 ± 0.12	3.31 ± 2.17	12.87 ± 3.66	3.93 ± 0.91	5.2 ± 3.02	–
J1355.0–1044	0.33	F	769 ± 26.2	2.39 ± 0.08	13.41 ± 4.32	43.35 ± 6.31	8.15 ± 1.32	9.57 ± 4.03	–
J1357.5+0125	0.22	I	61 ± 1.9	2.14 ± 0.17	9.27 ± 4.65	10.52 ± 5.61	3.54 ± 1.08	5.4 ± 3.28	3.91 ± 2.33
J1357.6+7643	1.59	F	647 ± 19.4	2.48 ± 0.09	10.62 ± 2.84	21.75 ± 3.69	4.61 ± 0.87	13.96 ± 3.48	–
J1359.0+5544	1.01	F	128 ± 3.9	2.59 ± 0.07	17.57 ± 2.51	31.45 ± 3.93	7.22 ± 1	5.74 ± 2.75	–
J1359.2+0204	1.33	F	808 ± 28.6	2.33 ± 0.16	–	13.83 ± 5.91	3.06 ± 1.1	7.95 ± 3.7	–
J1359.9–3746	0.33	I	103 ± 3.1	2.02 ± 0.11	11.3 ± 3.85	22.89 ± 5.59	3.94 ± 1.21	20.57 ± 5.33	7.35 ± 2.88
J1404.8+0401	0.34	H	42 ± 1.7	1.98 ± 0.11	6.36 ± 2.88	11.79 ± 4.3	3.85 ± 1.05	17.67 ± 4.67	3.59 ± 2.23
J1404.8+6554	0.36	H	15 ± 1	2.09 ± 0.14	3.21 ± 1.8	6.23 ± 2.79	2.31 ± 0.68	7.08 ± 2.58	–
J1406.6+1644	1.99	H	8 ± 0.5	1.65 ± 0.21	–	–	1.16 ± 0.76	–	4.08 ± 2.22
J1408.8–0751	1.49	F	689 ± 24.1	2.38 ± 0.04	32.91 ± 3.51	86.1 ± 7.93	13.76 ± 1.62	28.52 ± 6.04	6.36 ± 2.95
J1410.4+2821	0.52	H	29 ± 1	1.97 ± 0.16	4.57 ± 2.27	–	2.9 ± 0.83	6.29 ± 2.98	4.13 ± 2.16
J1415.0–1001	2	F	263 ± 7.9	2.49 ± 0.15	11.52 ± 3.93	20.48 ± 5.71	2.06 ± 1.09	–	–
J1416.1–2417	0.14	L	73 ± 2.2	1.85 ± 0.13	–	–	2.71 ± 1.04	15.32 ± 4.83	5.84 ± 2.61
J1418.4–0233	2.06	H	35 ± 1.1	1.53 ± 0.08	–	26.7 ± 4.62	14.06 ± 1.56	93.87 ± 9.24	38.25 ± 6.06
J1419.8+3819	1.83	F	612 ± 18.4	2.36 ± 0.08	7.69 ± 2.8	28.95 ± 4.24	5.18 ± 0.98	7.27 ± 3.09	–
J1419.9+5425	0.15	L	789 ± 27.8	2.31 ± 0.06	15.11 ± 2.44	34.35 ± 3.99	7.03 ± 0.98	21.03 ± 4.27	4.47 ± 1.99
J1422.4+3227	0.68	F	405 ± 14.3	2.56 ± 0.21	7.43 ± 2.4	7.44 ± 3.81	2.11 ± 0.77	4.66 ± 2.86	–
J1422.8+5801	0.64	H	13 ± 0.6	2.02 ± 0.22	7.17 ± 2.01	–	–	8.4 ± 3.17	4.24 ± 1.94
J1424.3+0434	0.67	L	221 ± 6.6	2.36 ± 0.14	5.03 ± 2.88	18.22 ± 4.96	2.62 ± 1	5.2 ± 2.95	–
J1424.9+3615	2.06	I	91 ± 2.8	2.1 ± 0.08	6.07 ± 3.26	28.31 ± 4.45	5.49 ± 1.05	16.24 ± 4.3	8.06 ± 2.73
J1426.2+3402	1.55	L	35 ± 1.1	1.93 ± 0.14	–	6.32 ± 3.42	2.14 ± 0.76	11.44 ± 3.73	–
J1427.0+2347	0.16	H	430 ± 12.9	1.76 ± 0.02	45.99 ± 3.09	220.63 ± 7.28	83.39 ± 2.86	350.27 ± 16.35	172.67 ± 11.34
J1427.6–3305	0.57	L	161 ± 4.9	2.42 ± 0.05	33.61 ± 3.33	75.52 ± 7.42	13.4 ± 1.61	22.48 ± 5.33	6.59 ± 2.65
J1427.9–4206	1.52	F	2800 ± 540	2.08 ± 0.02	183.49 ± 5.16	634.94 ± 12.01	148.76 ± 3.94	319.19 ± 16.07	47.77 ± 6.34
J1428.5+4240	0.13	H	32 ± 3.2	1.57 ± 0.09	–	6.98 ± 3.03	4.05 ± 0.86	11.8 ± 3.8	19.72 ± 3.97
J1434.1+4203	1.24	F	309 ± 9.3	2.39 ± 0.12	6.43 ± 2.77	13.61 ± 3.74	3.42 ± 0.87	6.27 ± 2.65	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon · cm^{-2} · s^{-1})				
J1434.6+1951	1.38	F	408 ± 12.2	2.25 ± 0.23	–	12.32 ± 7.02	2.06 ± 1.06	10.81 ± 4.09	–
J1435.2+2023	0.75	H	377 ± 13.3	2.55 ± 0.15	–	17.81 ± 7.39	3.26 ± 1.1	12.93 ± 4.37	–
J1436.8+2322	1.55	F	818 ± 28.8	2.41 ± 0.14	8.54 ± 3.74	19.39 ± 4.79	3.1 ± 0.97	7.67 ± 3.6	–
J1436.8+5639	0.15	H	21 ± 1.1	1.98 ± 0.13	5.25 ± 2.08	9.82 ± 3.15	2.32 ± 0.69	11.15 ± 3.34	6.4 ± 2.28
J1438.7+3710	2.4	F	357 ± 10.7	2.36 ± 0.04	28.42 ± 3.02	68.19 ± 5.07	11.93 ± 1.29	31.69 ± 5.45	–
J1439.2+3931	0.34	H	43 ± 1.4	1.77 ± 0.11	–	7.41 ± 3.17	3.02 ± 0.79	9.65 ± 3.71	5.67 ± 2.35
J1440.1+4955	0.17	L	112 ± 3.4	2.6 ± 0.1	14.12 ± 2.64	21.74 ± 4.09	2.81 ± 0.82	5.43 ± 2.97	–
J1440.2–1538	0.57	L	641 ± 22.6	2.35 ± 0.11	–	32.22 ± 6.37	3.67 ± 1.28	7.1 ± 3.88	–
J1440.4–3845	0.57	H	23 ± 0.8	1.73 ± 0.15	–	–	4.26 ± 1.37	9.91 ± 4.2	9.12 ± 3.15
J1440.9+0610	0.44	H	90 ± 3.7	2.25 ± 0.08	16.03 ± 2.99	28.71 ± 5.12	5.73 ± 1.22	19.54 ± 5.16	8.69 ± 3.16
J1442.8+1200	0.16	H	60 ± 6	1.8 ± 0.12	4.39 ± 2.56	6.75 ± 4.01	2.73 ± 0.91	19.82 ± 4.78	7.24 ± 2.86
J1443.9+2502	0.06	F	362 ± 10.9	2.13 ± 0.07	9.13 ± 2.81	29.75 ± 4.71	5.43 ± 1.09	28.43 ± 5.37	3.89 ± 2.24
J1444.0–3907	0.07	H	110 ± 3.3	1.81 ± 0.04	11.97 ± 6.02	42.87 ± 6.35	20.71 ± 1.86	97.21 ± 9.36	41.27 ± 6.08
J1445.0–0328	0.57	H	22 ± 0.8	1.96 ± 0.12	–	10.77 ± 5.38	4.69 ± 1.22	13.45 ± 4.67	6.36 ± 3.48
J1446.1–1628	0.57	L	396 ± 11.9	2.36 ± 0.14	10.56 ± 4.15	14.54 ± 6.02	3.52 ± 1.3	9.09 ± 4.22	–
J1448.0+3608	1.57	H	30 ± 1.5	1.82 ± 0.06	4.11 ± 2.35	19.43 ± 3.87	8.23 ± 1.11	35.7 ± 5.76	17.47 ± 3.84
J1450.4+0911	2.61	F	186 ± 18.6	2.35 ± 0.13	6.34 ± 3.31	10.79 ± 4.92	3.68 ± 1.08	13.04 ± 4.18	–
J1454.0+1622	1.28	F	229 ± 6.9	2.59 ± 0.13	8.32 ± 3.08	18.93 ± 4.86	2.47 ± 0.95	5.52 ± 3.16	–
J1454.2–3751	0.31	F	943 ± 28.3	2.76 ± 0.11	23.56 ± 4.7	37.49 ± 6.81	4.72 ± 1.34	–	–
J1454.5+5124	1.08	I	178 ± 6.3	2.08 ± 0.04	19.41 ± 2.52	66.34 ± 5.48	18.14 ± 1.46	51.09 ± 6.47	14.41 ± 3.38
J1457.4–3539	1.42	F	675 ± 20.3	2.16 ± 0.03	80.66 ± 4.8	267.67 ± 9.2	52.09 ± 2.54	109.45 ± 9.89	15.29 ± 3.84
J1458.7+3719	0.33	L	215 ± 6.5	2.24 ± 0.18	–	9.42 ± 3.9	2.08 ± 0.73	–	–
J1500.6+4750	1.06	L	432 ± 13	2.64 ± 0.15	13.06 ± 6.5	–	3.35 ± 1.03	–	–
J1500.9+2238	0.24	I	32 ± 1.1	1.92 ± 0.06	6.58 ± 2.53	20.89 ± 4.64	9.33 ± 1.24	30.83 ± 5.68	15.15 ± 3.75
J1503.7–1540	0.57	H	6 ± 0.6	1.77 ± 0.09	5.15 ± 2.86	15.8 ± 5.44	2.6 ± 1.18	28.76 ± 6.01	17.7 ± 4.34
J1504.4+1029	1.84	F	1780 ± 53.2	2.08 ± 0.01	278.14 ± 4.92	918.82 ± 13.03	200.56 ± 4.38	401.57 ± 17.88	47.2 ± 6.48
J1506.1+3728	0.67	F	938 ± 28.1	2.45 ± 0.07	14.37 ± 3.45	40.39 ± 4.71	7.32 ± 1.07	9.47 ± 3.53	–
J1506.3+4332	0.47	I	29 ± 1	1.95 ± 0.15	–	–	2.23 ± 0.75	7.89 ± 3.49	–
J1506.6+0811	0.38	H	85 ± 2.6	1.87 ± 0.11	–	10.38 ± 4.9	3.28 ± 1.08	19.81 ± 4.99	6.07 ± 2.64
J1507.4+1725	1.49	H	23 ± 0.8	1.78 ± 0.2	–	–	–	6.64 ± 3.19	3.59 ± 2.2
J1509.7+5556	1.68	H	31 ± 1	1.87 ± 0.11	–	7.6 ± 3.21	2.62 ± 0.74	11.16 ± 3.41	6.71 ± 2.39
J1510.9–0542	1.19	F	4130 ± 90	2.43 ± 0.05	31.01 ± 12.14	102.45 ± 11.69	18.02 ± 2.1	30.99 ± 6.51	4.09 ± 2.5
J1512.2+0202	0.22	F	958 ± 32.3	2.2 ± 0.05	22.6 ± 3.71	64.79 ± 6.59	15.71 ± 1.71	42.56 ± 7.22	10.3 ± 3.47
J1512.8–0906	0.36	F	2700 ± 81	2.3 ± 0.01	696.77 ± 11.27	1893.69 ± 20.8	337.73 ± 5.9	625.4 ± 22.89	86.73 ± 8.61
J1513.1–1014	1.51	F	875 ± 30.8	2.77 ± 0.17	29.65 ± 9.97	43.76 ± 12.52	4.09 ± 1.77	7.61 ± 4.56	–
J1513.5–3233	1.15	F	183 ± 5.5	2.34 ± 0.07	16.48 ± 4.01	56.25 ± 7.4	10.14 ± 1.67	16.93 ± 5.25	–
J1514.1+2940	1.63	F	129 ± 3.9	2.88 ± 0.21	10.61 ± 3.7	11.66 ± 4.58	–	–	–
J1514.8+4446	0.57	F	40 ± 1.6	2.34 ± 0.07	11.17 ± 2.8	36.05 ± 4.46	7.44 ± 1.08	15.25 ± 4.01	–
J1516.7+3648	0.44	L	179 ± 5.4	2.23 ± 0.14	–	10.51 ± 3.67	2.81 ± 0.82	5.54 ± 2.76	–
J1516.9+1926	1.07	L	465 ± 13.9	2.77 ± 0.14	11.89 ± 3.29	20.9 ± 5.41	1.81 ± 0.98	–	–
J1517.6–2422	0.05	I	2040 ± 61.3	2.11 ± 0.03	54.03 ± 4.31	135.89 ± 8.09	39.24 ± 2.38	130.35 ± 10.93	23.76 ± 4.97

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1520.3+4209	0.48	F	139 ± 5.5	2.5 ± 0.09	9.07 ± 3.02	29.07 ± 4.42	3.72 ± 0.9	5.87 ± 2.98	–
J1520.8–0348	0.57	H	46 ± 1.5	1.83 ± 0.07	–	15.13 ± 5.65	6.69 ± 1.46	41.12 ± 6.85	13.54 ± 3.85
J1521.8+4340	2.17	F	226 ± 6.8	2.61 ± 0.14	11.42 ± 3.59	19 ± 4.41	1.59 ± 0.7	–	–
J1522.1+3144	1.49	F	348 ± 10.4	2.25 ± 0.01	293.83 ± 4.52	799.76 ± 11.35	151.78 ± 3.64	269.02 ± 14.12	38.42 ± 5.55
J1522.6–2730	1.29	L	1110 ± 33.2	2.13 ± 0.04	20.38 ± 6.79	87.93 ± 8.75	21.62 ± 2.04	72.04 ± 8.79	12.24 ± 3.54
J1531.0+5737	1.1	I	38 ± 1.2	2.27 ± 0.13	7.04 ± 2.18	10.15 ± 3.29	2.95 ± 0.76	5.9 ± 2.82	4.98 ± 2.04
J1531.8+4704	0.32	H	28 ± 1.2	2.32 ± 0.2	6.62 ± 2.11	–	1.72 ± 0.74	–	–
J1532.0+3018	0.07	H	54 ± 2	1.77 ± 0.13	–	–	2.05 ± 0.76	11.77 ± 3.96	5.52 ± 2.32
J1533.2+1852	0.31	H	23 ± 0.8	1.89 ± 0.18	4.42 ± 2.68	–	–	12.8 ± 4.17	5.01 ± 2.48
J1533.5+3416	0.81	H	30 ± 1	1.85 ± 0.16	–	6.66 ± 3.45	1.07 ± 0.68	9.45 ± 3.51	3.04 ± 1.94
J1534.4+5323	0.89	H	18 ± 1	1.96 ± 0.2	–	–	1.11 ± 0.61	6.61 ± 2.98	–
J1534.5+0128	1.43	F	1340 ± 40.3	2.78 ± 0.11	20.26 ± 3.73	29.12 ± 6.3	2.93 ± 1.09	7.33 ± 3.68	–
J1535.0+3721	0.14	H	22 ± 0.8	2.11 ± 0.12	–	14.8 ± 3.73	3.35 ± 0.93	4.34 ± 2.7	4.92 ± 2.22
J1535.7+3920	0.26	H	19 ± 0.9	2.1 ± 0.15	–	6.72 ± 3.42	2.46 ± 0.83	–	–
J1539.5+2746	2.08	F	195 ± 5.9	2.08 ± 0.07	3.71 ± 2.4	23.23 ± 4.44	7.34 ± 1.16	24.41 ± 5.17	4.46 ± 2.11
J1540.1+8155	0.57	H	70 ± 2.6	1.6 ± 0.08	–	–	3.51 ± 0.77	14.26 ± 3.49	12.54 ± 2.78
J1540.8+1449	0.61	L	1390 ± 41.6	2.34 ± 0.17	6.49 ± 3.73	18.33 ± 5.27	2.88 ± 1.16	–	2.76 ± 1.83
J1542.9+6129	0.12	I	87 ± 2.6	1.9 ± 0.03	27.18 ± 2.38	102.91 ± 4.91	34.33 ± 1.69	117.84 ± 8.47	30.79 ± 4.52
J1546.0+0818	0.57	H	11 ± 0.6	1.69 ± 0.11	–	–	3.56 ± 1.06	16.57 ± 4.75	8.02 ± 2.95
J1546.6+1812	1.01	L	49 ± 1.9	2.3 ± 0.18	–	8.63 ± 4.96	–	7.92 ± 3.32	–
J1548.8–2250	0.19	H	145 ± 4.4	2.05 ± 0.08	8.27 ± 4.25	34.94 ± 7.28	7.74 ± 1.65	20.23 ± 5.61	9.89 ± 3.33
J1549.4+0237	0.41	F	836 ± 29.5	2.46 ± 0.05	40.99 ± 4.09	82.9 ± 7.29	14.85 ± 1.76	28.19 ± 6.03	–
J1550.5+0526	1.42	F	2300 ± 69.1	2.34 ± 0.06	11.35 ± 4.1	57.05 ± 6.5	10.46 ± 1.5	28.9 ± 6.14	–
J1552.1+0852	1.02	L	125 ± 3.8	2.21 ± 0.12	–	14.94 ± 5.32	5.08 ± 1.2	–	–
J1553.3–2421	0.33	F	271 ± 8.1	2.28 ± 0.09	–	35.41 ± 7.65	5.72 ± 1.52	18.37 ± 5.69	–
J1553.5+1256	1.29	F	948 ± 28.4	2.22 ± 0.05	40.67 ± 4.32	112.81 ± 7.46	24.72 ± 1.91	39.55 ± 6.5	4.09 ± 2.2
J1553.5–3118	0.57	H	156 ± 4.7	1.51 ± 0.16	–	–	5.46 ± 1.22	29.27 ± 6.08	13.35 ± 3.71
J1554.4+2010	0.22	H	79 ± 2.4	2.25 ± 0.18	4.69 ± 3.1	8.29 ± 4.76	2.15 ± 0.97	10.07 ± 3.78	–
J1555.7+1111	0.36	H	312 ± 9.4	1.6 ± 0.03	27.95 ± 4.04	161.39 ± 7.56	67.17 ± 2.74	389.66 ± 17.62	224.15 ± 13.23
J1558.9+5625	0.3	I	208 ± 6.3	2.21 ± 0.08	14.91 ± 4.07	21.58 ± 4.45	7.62 ± 1.05	21.91 ± 4.43	3.8 ± 1.94
J1603.7+1106	0.14	L	196 ± 5.9	2.32 ± 0.13	–	21.14 ± 6.23	3.55 ± 1.25	8.34 ± 4.16	–
J1604.6+5714	0.72	F	497 ± 14.9	2.35 ± 0.05	24.12 ± 4.78	83.77 ± 6.02	13.27 ± 1.25	24.73 ± 4.55	–
J1607.0+1551	0.5	F	633 ± 19	2.28 ± 0.04	26.51 ± 3.6	76.87 ± 6.32	17.69 ± 1.63	36.94 ± 6.27	6.63 ± 2.66
J1608.6+1029	1.23	F	1390 ± 41.8	2.62 ± 0.05	45.6 ± 5.37	79.16 ± 7.09	12.98 ± 1.6	10.92 ± 4.1	–
J1610.6–3956	0.52	F	593 ± 17.8	2.61 ± 0.1	32.92 ± 6.35	53.03 ± 10.79	6.04 ± 2.12	11.13 ± 5.37	–
J1613.8+3410	1.4	F	4030 ± 121	2.35 ± 0.08	15.34 ± 2.48	21.47 ± 4.24	6.14 ± 1.04	10.63 ± 3.59	4.03 ± 2.08
J1615.8+4712	0.2	F	564 ± 18.4	2.02 ± 0.17	–	8.56 ± 4.2	2.41 ± 0.76	9.12 ± 3.51	–
J1616.4+4631	0.95	F	79 ± 2.4	2.59 ± 0.17	12.82 ± 2.33	15.47 ± 4.75	1.4 ± 0.69	–	–
J1616.8+4111	0.27	L	96 ± 3.5	2.33 ± 0.17	–	8.4 ± 3.48	2.35 ± 0.74	–	–
J1617.7–7717	1.71	F	4100 ± 740	2.34 ± 0.07	31.35 ± 6.02	87.62 ± 7.64	13.83 ± 1.64	11.58 ± 4.1	–
J1617.8+5137	2.56	F	242 ± 7.3	2.7 ± 0.1	14.02 ± 2.51	24.34 ± 4.08	2.95 ± 0.83	–	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1625.0+5651	0.42	L	259 ± 7.8	2.39 ± 0.16	–	14.81 ± 3.6	1.34 ± 0.71	4.33 ± 2.38	–
J1625.7–2527	0.79	F	2520 ± 75.6	2.23 ± 0.03	127.5 ± 9.13	436.76 ± 16.34	89.34 ± 3.89	159.71 ± 13.04	20.65 ± 4.79
J1625.9+4125	2.18	F	78 ± 2.4	2.7 ± 0.12	9.96 ± 3.78	21.98 ± 4.32	2.34 ± 0.81	6.2 ± 2.86	–
J1626.0–2951	0.82	F	2290 ± 68.6	2.51 ± 0.07	35.82 ± 7.2	135.68 ± 10.91	19.22 ± 2.21	41.8 ± 7.73	–
J1626.1+3512	0.5	H	25 ± 0.9	1.7 ± 0.23	–	–	–	6.61 ± 2.93	–
J1630.7+5222	1.55	H	120 ± 3.6	1.97 ± 0.06	5.84 ± 2.34	18.01 ± 3.64	7.56 ± 1.07	21.81 ± 4.46	7.51 ± 2.56
J1635.2+3809	1.81	F	2730 ± 81.8	2.41 ± 0.02	199.27 ± 9.41	591.06 ± 12.27	98.5 ± 3.2	144.89 ± 10.48	11.83 ± 3.24
J1637.7+4715	0.74	F	949 ± 94.9	2.37 ± 0.04	30.99 ± 2.66	75.34 ± 4.97	14.12 ± 1.29	32.44 ± 5.6	4.18 ± 2.11
J1637.8+7325	0.57	H	6 ± 0.5	1.91 ± 0.23	–	–	0.91 ± 0.59	7.78 ± 2.72	–
J1637.9+5719	0.75	F	1200 ± 36	2.81 ± 0.11	19.52 ± 2.54	16.58 ± 3.74	2.95 ± 0.8	–	–
J1639.8+4125	0.69	F	74 ± 2.3	2.54 ± 0.15	7.6 ± 4.77	17.61 ± 4.66	2.95 ± 0.89	3.83 ± 2.4	–
J1640.6+3945	1.66	F	920 ± 10	2.28 ± 0.06	24.83 ± 9.21	148.87 ± 12.31	29.23 ± 2.31	68.4 ± 8.09	6.62 ± 2.63
J1641.8–0619	1.51	L	1220 ± 36.6	2.32 ± 0.08	–	48.98 ± 11.83	10.85 ± 2.05	26.92 ± 6.57	7.68 ± 3.18
J1642.9+3950	0.59	F	6790 ± 165	2.45 ± 0.05	60.34 ± 10.82	113.89 ± 12.25	21.69 ± 2.13	39.26 ± 6.71	6.81 ± 2.8
J1645.9+6336	2.38	F	218 ± 6.6	2.69 ± 0.11	13.03 ± 2.4	21.43 ± 3.89	2.31 ± 0.77	4.09 ± 2.33	–
J1649.4+5238	2.06	I	50 ± 1.9	2.22 ± 0.07	4.35 ± 2.3	21.99 ± 4.06	6.48 ± 1.02	12.48 ± 3.75	–
J1650.8+0830	1.97	F	159 ± 4.8	2.66 ± 0.1	18.24 ± 3.93	33.9 ± 6.7	3.73 ± 1.3	8.36 ± 4.25	–
J1651.6+7219	0.57	H	21 ± 1.1	1.8 ± 0.19	–	–	–	6.14 ± 2.5	2.61 ± 1.47
J1653.9+3945	0.03	H	1560 ± 46.8	1.72 ± 0.02	29.28 ± 3.04	135.2 ± 6.04	52.23 ± 2.26	285 ± 14.29	153.74 ± 10.27
J1656.9+6008	0.62	F	293 ± 8.8	2.62 ± 0.11	10.71 ± 2.77	20.71 ± 3.81	2.72 ± 0.74	4.07 ± 2.5	–
J1657.7+4807	1.67	F	1030 ± 31.1	2.48 ± 0.04	31.46 ± 2.98	68.76 ± 5.01	10.86 ± 1.23	18.03 ± 4.23	4.87 ± 2.11
J1658.3+6149	0.37	I	38 ± 1.2	2.03 ± 0.17	4.04 ± 2.55	–	1.46 ± 0.67	5.88 ± 2.54	2.85 ± 1.58
J1659.4+2631	0.79	F	590 ± 17.7	2.71 ± 0.22	6.39 ± 2.96	9.92 ± 4.96	2.22 ± 1	–	–
J1700.1+6829	0.3	F	347 ± 12.3	2.4 ± 0.02	58.71 ± 3.1	135.78 ± 5.64	25.67 ± 1.52	47.42 ± 5.83	4.9 ± 1.99
J1702.6+3116	2.08	H	6 ± 0.3	1.4 ± 0.15	–	–	–	6.19 ± 3.06	7.43 ± 2.9
J1705.5+7134	0.35	H	36 ± 1.2	2.45 ± 0.21	4.48 ± 2.87	6.99 ± 3.38	–	7.06 ± 2.8	–
J1709.6+4318	1.03	F	143 ± 4.3	2.16 ± 0.04	55.16 ± 2.74	169.57 ± 6.27	36.35 ± 1.93	76.65 ± 7.66	9.35 ± 2.9
J1712.6+2932	0.42	H	17 ± 0.7	1.58 ± 0.15	–	–	2.17 ± 0.84	4.66 ± 3.04	6.96 ± 2.66
J1715.7+6837	0.78	F	489 ± 14.7	2.14 ± 0.1	–	35.53 ± 4.15	6.59 ± 0.99	13.44 ± 3.51	3.41 ± 1.61
J1719.2+1744	0.14	L	543 ± 16.3	2.04 ± 0.06	10.95 ± 2.97	35.8 ± 5.69	11.79 ± 1.45	36.09 ± 6.28	14.62 ± 3.83
J1722.7+6104	2.06	F	203 ± 20.3	2.87 ± 0.14	12.57 ± 5.17	16.57 ± 4.83	1.61 ± 0.77	–	–
J1723.9+4004	1.05	F	568 ± 17.1	2.45 ± 0.05	25.81 ± 3	56.82 ± 5.14	11.73 ± 1.34	17.33 ± 4.29	–
J1725.0+1152	0.02	H	121 ± 3.7	1.89 ± 0.05	34.07 ± 8.57	56.34 ± 9.06	19.71 ± 2.02	99.54 ± 9.73	46.25 ± 6.46
J1725.3+5853	0.3	I	76 ± 2.3	2.18 ± 0.12	3.75 ± 2.38	11.35 ± 3.91	3.77 ± 0.87	8.71 ± 3.02	–
J1727.1+4531	0.72	F	914 ± 27.4	2.35 ± 0.07	35.9 ± 2.7	79.85 ± 5.26	13.89 ± 1.33	15.9 ± 4.05	–
J1728.0+1217	0.59	F	346 ± 10.4	2.38 ± 0.12	–	31.26 ± 8.97	5.33 ± 1.5	13.56 ± 4.74	–
J1728.3+5013	0.06	H	201 ± 6.1	1.96 ± 0.06	8.34 ± 2.53	23.67 ± 3.97	6.53 ± 1.02	31.75 ± 5.39	8.77 ± 2.71
J1728.5+0428	0.3	F	683 ± 20.5	2.59 ± 0.08	26.43 ± 5.23	56.86 ± 8.03	8.33 ± 1.64	9.29 ± 4.44	–
J1730.6+3711	0.2	I	62 ± 3.1	2.09 ± 0.11	–	15.76 ± 4.26	3.06 ± 0.92	12.3 ± 4.04	–
J1733.0–1305	0.9	F	5990 ± 180	2.24 ± 0.04	86.52 ± 6.7	232.77 ± 12.41	42.31 ± 2.95	97.46 ± 10.82	13.59 ± 4.06
J1734.3+3858	0.98	F	797 ± 23.9	2.31 ± 0.03	32.64 ± 3.2	96.33 ± 5.84	18.52 ± 1.53	43.82 ± 6.3	3.71 ± 2.09

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1736.4+0634	2.39	F	49 ± 1.6	2.73 ± 0.1	30.33 ± 5.7	39.83 ± 7.99	4.85 ± 1.42	6.68 ± 4.16	–
J1739.4+4955	1.55	F	532 ± 16	2.31 ± 0.05	18.83 ± 3.27	47.03 ± 4.8	11.66 ± 1.25	14.82 ± 3.98	5.88 ± 2.33
J1740.3+4736	0.95	F	759 ± 22.8	1.95 ± 0.17	–	–	2.09 ± 0.83	8.2 ± 3.19	2.73 ± 1.69
J1740.3+5211	1.38	F	807 ± 24.2	2.45 ± 0.04	31.98 ± 3.62	87.49 ± 5.5	14.04 ± 1.32	15.48 ± 4.08	5.21 ± 2.15
J1742.2+5947	0.4	I	107 ± 3.2	2.3 ± 0.12	11.19 ± 2.71	11.47 ± 3.85	2.53 ± 0.81	9.73 ± 3.15	2.89 ± 1.67
J1743.9+1934	0.08	H	551 ± 55.1	1.78 ± 0.11	–	–	3.81 ± 1.04	23.65 ± 5.51	6.88 ± 2.94
J1744.3–0353	1.05	F	1410 ± 42.3	2.27 ± 0.16	–	27.69 ± 10.64	5.5 ± 1.92	14.21 ± 5.54	–
J1745.4–0754	0.57	L	1180 ± 35.5	1.92 ± 0.1	11.96 ± 5.74	–	7.17 ± 2.06	33.77 ± 7.64	9.93 ± 3.52
J1745.7+3952	0.27	H	636 ± 22.2	1.69 ± 0.32	4.32 ± 2.28	7.4 ± 3.56	–	–	4.7 ± 2.24
J1748.0+3405	2.76	F	190 ± 5.7	2.39 ± 0.1	12.3 ± 2.91	21.79 ± 4.64	5.53 ± 1.1	8.43 ± 3.36	3.52 ± 1.96
J1748.6+7005	0.77	L	736 ± 22.1	2.06 ± 0.02	30.51 ± 4.23	101.48 ± 5.73	30.86 ± 1.64	99.07 ± 7.69	28.59 ± 4.15
J1749.1+4322	0.22	L	281 ± 8.5	2.25 ± 0.06	14.54 ± 2.76	38.76 ± 4.68	7.75 ± 1.14	27.81 ± 5.1	3.97 ± 2.03
J1751.5+0939	0.32	L	623 ± 18.7	2.12 ± 0.05	33.19 ± 4.58	159.59 ± 9	31.1 ± 2.27	74.52 ± 8.98	9.25 ± 3.23
J1754.1+3212	0.57	I	64 ± 2.4	1.9 ± 0.03	16.88 ± 2.9	61.16 ± 5.27	23.37 ± 1.67	95.04 ± 8.69	34.47 ± 5.33
J1756.3+5523	2.09	H	17 ± 1	1.98 ± 0.13	3.73 ± 2.43	16.84 ± 3.77	–	10.68 ± 3.32	6.41 ± 2.29
J1756.9+7032	0.41	H	11 ± 0.6	1.71 ± 0.24	9.95 ± 4.79	–	–	4.2 ± 2.45	2.8 ± 1.56
J1800.5+7827	0.68	L	2220 ± 66.7	2.22 ± 0.02	66.33 ± 2.6	162.07 ± 5.63	38.82 ± 1.78	111.16 ± 8.09	23.47 ± 3.82
J1801.5+4403	0.66	F	727 ± 21.8	2.7 ± 0.09	19.92 ± 3.1	34.63 ± 5.01	3.83 ± 1	8.91 ± 3.48	–
J1806.7+6949	0.05	I	2600 ± 130	2.23 ± 0.03	32.64 ± 4.46	120.25 ± 5.94	26.51 ± 1.55	65.56 ± 6.43	13.73 ± 2.95
J1808.0+4652	0.45	L	65 ± 2	1.73 ± 0.2	–	–	1.36 ± 0.8	5.48 ± 2.92	2.92 ± 1.72
J1809.4+2040	0.57	H	52 ± 1.6	1.88 ± 0.22	–	9.61 ± 5.4	–	8.62 ± 4.15	6 ± 2.53
J1809.7+2909	0.57	I	82 ± 2.5	1.91 ± 0.07	–	17.07 ± 5.4	7.75 ± 1.29	30.86 ± 5.7	11.84 ± 3.4
J1810.8+1609	0.57	I	34 ± 1.1	2.11 ± 0.09	–	31.52 ± 7.19	5.71 ± 1.46	22.33 ± 5.61	3.94 ± 2.48
J1811.2+0340	0.57	H	21 ± 0.8	1.71 ± 0.09	–	–	5.39 ± 1.59	31.79 ± 6.54	9.82 ± 3.28
J1813.6+0614	0.57	I	190 ± 5.7	1.88 ± 0.09	–	–	7.28 ± 1.65	28.13 ± 6.2	7.93 ± 2.98
J1813.6+3143	0.12	I	192 ± 5.8	1.91 ± 0.1	7.56 ± 2.5	37.8 ± 4.97	12.77 ± 1.5	20.58 ± 5.02	6.42 ± 2.63
J1818.6+0903	0.35	F	75 ± 2.3	2.37 ± 0.07	22.65 ± 5.43	56.57 ± 8.83	14.33 ± 1.99	22.9 ± 6.2	5.74 ± 2.77
J1823.4+6857	0.57	I	220 ± 6.6	2.28 ± 0.07	13 ± 3.65	28.18 ± 4.49	5.67 ± 1	20.23 ± 3.97	–
J1824.2+5649	0.66	L	1410 ± 42.4	2.46 ± 0.03	45.16 ± 3.35	94.81 ± 5.85	18.34 ± 1.46	28.79 ± 4.97	3.24 ± 1.71
J1829.4+5402	0.18	I	26 ± 0.9	1.93 ± 0.09	4.15 ± 2.32	13.37 ± 3.77	4.24 ± 0.9	13.29 ± 3.64	8.28 ± 2.51
J1829.8+1328	0.57	I	95 ± 2.9	1.87 ± 0.16	–	–	4.55 ± 1.48	9.85 ± 4.55	–
J1830.1+0617	0.75	F	397 ± 11.9	2.11 ± 0.07	11.47 ± 5.66	44.61 ± 9.94	16.32 ± 2.36	46.71 ± 8.07	7.98 ± 3.26
J1833.6–2103	2.51	F	10900 ± 327	2.35 ± 0.02	485.97 ± 8.61	1132.94 ± 18.71	177.22 ± 4.87	260.4 ± 15.85	30.17 ± 5.47
J1836.3+3137	0.57	I	38 ± 1.5	2.35 ± 0.09	17.04 ± 5.3	23.87 ± 6.68	6.98 ± 1.36	12.79 ± 4.27	2.92 ± 1.88
J1838.8+4802	0.3	H	30 ± 1	1.81 ± 0.06	6.5 ± 3.03	16.13 ± 4.22	7.07 ± 1.12	32.86 ± 5.45	15.73 ± 3.61
J1841.7+3218	0.57	H	22 ± 1.1	2.06 ± 0.1	–	35.72 ± 6.74	4.8 ± 1.25	17.92 ± 4.83	12.19 ± 3.46
J1842.8+6810	0.47	F	798 ± 23.9	2.55 ± 0.17	6.76 ± 4.27	16.57 ± 4.92	1.81 ± 0.82	4.47 ± 2.71	–
J1848.4+3216	0.8	F	517 ± 15.5	2.41 ± 0.07	57.95 ± 9.9	63.64 ± 19.44	24.88 ± 3.11	42.27 ± 7.98	9.42 ± 3.12
J1848.9+4247	0.57	H	22 ± 1.1	1.66 ± 0.26	5.85 ± 2.26	–	–	–	6.57 ± 2.5
J1849.2+6705	0.66	F	518 ± 15.5	2.14 ± 0.03	51.14 ± 3.46	178.45 ± 6.34	38.56 ± 1.81	85.67 ± 7.35	14.24 ± 3.11
J1849.5+2751	0.57	L	47 ± 1.5	2.33 ± 0.1	–	31.53 ± 6.73	6.83 ± 1.41	6.95 ± 3.94	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J1852.4+4856	1.25	F	239 ± 7.2	2.31 ± 0.04	26.49 ± 2.83	72.51 ± 5.38	13.93 ± 1.35	33.71 ± 5.45	9.75 ± 2.89
J1903.2+5541	0.57	I	261 ± 9.2	1.72 ± 0.06	13.58 ± 3.2	58.16 ± 5.49	28.79 ± 1.75	118.37 ± 8.99	35.1 ± 4.87
J1911.2–2006	1.12	F	2710 ± 81.4	2.41 ± 0.03	79.97 ± 7.22	177.52 ± 10.51	34.11 ± 2.41	57.04 ± 8.24	5.51 ± 2.9
J1912.9–8008	0.5	F	1200 ± 300	2.24 ± 0.07	22.18 ± 4.25	68.09 ± 7.18	17.4 ± 1.73	30.32 ± 5.93	3.13 ± 2.07
J1917.7–1921	0.14	H	482 ± 16.9	1.87 ± 0.04	8.4 ± 4.82	55.97 ± 7.48	21.09 ± 1.93	77.61 ± 9.1	31.74 ± 5.46
J1921.2–1232	0.57	L	155 ± 4.7	2.04 ± 0.09	–	27.04 ± 7.93	8.23 ± 1.66	22.96 ± 5.96	7.7 ± 3.07
J1923.5–2104	0.87	F	3170 ± 95	2 ± 0.05	32.06 ± 3.62	142.71 ± 8.01	40.17 ± 2.37	89.1 ± 9.49	4.65 ± 2.35
J1924.8–2914	0.35	F	13400 ± 402	2.5 ± 0.04	51.53 ± 4.46	112.15 ± 8.13	19.86 ± 1.94	29.55 ± 6.27	6.01 ± 2.68
J1926.8+6154	0.57	H	22 ± 0.8	1.86 ± 0.05	–	28.83 ± 5.66	11.62 ± 1.31	45.39 ± 5.96	23.25 ± 3.9
J1927.7+6118	0.57	L	535 ± 16	2.27 ± 0.07	17.59 ± 7.54	39.6 ± 6.44	9.1 ± 1.29	18.23 ± 4.19	5.67 ± 2.06
J1932.6–4537	0.65	F	790 ± 79	2.52 ± 0.11	8.08 ± 3.72	33.47 ± 5.59	2.6 ± 1.04	13.24 ± 4.63	–
J1937.0–3956	0.97	F	1000 ± 35.4	2.68 ± 0.07	34.29 ± 3.89	62.17 ± 6.96	6.7 ± 1.43	10.6 ± 4.46	–
J1954.8–1122	0.68	F	367 ± 11	2.27 ± 0.05	30.29 ± 5.03	75.44 ± 9.34	19.48 ± 2.07	32.99 ± 6.66	4.79 ± 2.91
J1957.0–3234	1.24	F	474 ± 14.2	2.71 ± 0.14	11.06 ± 3.85	35.49 ± 7.04	–	–	–
J1958.0–3847	0.63	F	1490 ± 44.8	2.23 ± 0.05	51.51 ± 3.3	133.79 ± 7.21	27.3 ± 1.99	42.39 ± 6.82	–
J1958.2–3011	0.12	H	128 ± 5.1	1.82 ± 0.17	–	11.89 ± 6.42	1.97 ± 1.18	14.7 ± 5.26	7.05 ± 2.88
J2000.0+6509	0.05	H	250 ± 7.5	1.88 ± 0.02	26.06 ± 3.92	111.05 ± 6.37	36.41 ± 1.87	149.7 ± 9.68	71.78 ± 6.41
J2000.4–2926	0.65	F	103 ± 3.1	2.6 ± 0.11	22.86 ± 3.66	25.73 ± 7.24	4.28 ± 1.38	–	4.16 ± 2.46
J2001.0–1750	0.65	F	551 ± 16.5	2.31 ± 0.05	28.62 ± 4.12	78.3 ± 7.51	9.67 ± 1.63	39.46 ± 6.91	8.19 ± 3.02
J2005.2+7752	0.34	L	1060 ± 37.4	2.22 ± 0.04	19.05 ± 3.72	58.89 ± 5.4	13.91 ± 1.34	40.17 ± 5.64	6.03 ± 2.16
J2006.0–2311	0.83	F	302 ± 9.1	2.5 ± 0.08	17 ± 3.45	48.27 ± 6.86	7.45 ± 1.42	–	–
J2007.3+6605	1.33	F	509 ± 15.3	2.59 ± 0.09	16.08 ± 4.54	39.29 ± 6.31	4.02 ± 1.16	8.17 ± 3.27	–
J2009.3–4849	0.07	H	1260 ± 126	1.77 ± 0.03	11.65 ± 2.52	52.2 ± 5.05	20.85 ± 1.7	101.51 ± 9.3	47.54 ± 6.28
J2010.3+7228	0.57	L	954 ± 28.6	2.2 ± 0.08	17.94 ± 2.98	50.56 ± 5.82	11.46 ± 1.4	22.54 ± 4.58	–
J2012.0+4629	0.57	I	620 ± 21.8	2.11 ± 0.05	28.54 ± 5.2	61.45 ± 9.42	14.23 ± 2.04	68.89 ± 8.7	17.24 ± 3.88
J2014.3–0047	0.23	H	125 ± 3.8	1.83 ± 0.11	–	14.55 ± 6.81	4.13 ± 1.25	21.7 ± 5.56	5.99 ± 2.95
J2015.2–0138	0.57	I	922 ± 27.7	2.15 ± 0.07	–	46.44 ± 7.87	8.66 ± 1.47	20.92 ± 5.17	4.19 ± 2.43
J2015.6+3709	0.86	F	2170 ± 65	2.53 ± 0.04	140.97 ± 15.81	399.52 ± 24.09	76.09 ± 4.73	116.96 ± 12.6	15.19 ± 4.44
J2016.4–0905	0.37	I	76 ± 2.3	1.98 ± 0.07	8.08 ± 3.72	30.21 ± 5.84	10.13 ± 1.43	33.01 ± 6.18	13.21 ± 3.7
J2022.5+7612	0.59	I	429 ± 12.9	2.35 ± 0.05	26.61 ± 3.35	46.47 ± 6.97	10.23 ± 1.38	22.77 ± 4.51	4.05 ± 1.92
J2024.4–3254	1.47	F	887 ± 26.6	2.79 ± 0.1	25.83 ± 3.36	27.87 ± 6.08	4.07 ± 1.23	11.37 ± 4.63	–
J2025.6–0736	1.39	F	1350 ± 40.4	2.18 ± 0.03	89.06 ± 4.85	305.28 ± 10.11	58.91 ± 2.68	97.74 ± 9.32	6.94 ± 2.88
J2031.8+1223	1.22	L	999 ± 30	2.45 ± 0.1	–	33.73 ± 8.51	6.42 ± 1.44	7.43 ± 3.87	–
J2034.3+1155	0.61	F	341 ± 10.3	2.47 ± 0.15	–	28.45 ± 9.86	3.6 ± 1.35	5.92 ± 3.41	–
J2035.3+1055	0.6	F	1070 ± 32.2	2.47 ± 0.05	30.75 ± 9.06	89.49 ± 8.64	15.55 ± 1.75	26.43 ± 5.72	–
J2036.4+6551	0.57	I	131 ± 4.7	2.01 ± 0.1	–	12.31 ± 5.37	3.89 ± 1.17	20.63 ± 4.51	4.03 ± 1.82
J2036.8–2830	2.31	F	64 ± 2	2.58 ± 0.12	8.17 ± 3.19	21.43 ± 5.53	4.14 ± 1.13	6.02 ± 3.44	–
J2038.8+5113	1.69	F	6080 ± 182	2.89 ± 0.1	57.42 ± 7.87	76.3 ± 13.3	6.52 ± 2.18	8.07 ± 5.18	–
J2039.0–1047	0.57	L	193 ± 5.8	1.84 ± 0.07	4.77 ± 2.29	52.24 ± 5.38	17.39 ± 1.62	46.22 ± 7.04	12.68 ± 3.69
J2039.5+5217	0.05	H	42 ± 1.7	1.89 ± 0.22	–	–	3.7 ± 1.59	10.06 ± 4.58	4.97 ± 2.33
J2042.1+2428	0.1	H	70 ± 2.2	1.87 ± 0.14	6.12 ± 3.4	–	2.97 ± 1.15	15.34 ± 4.54	6.88 ± 2.86

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J2050.2+0409	0.57	L	566 ± 17	2.07 ± 0.11	–	13.06 ± 5.46	4.28 ± 1.21	15.83 ± 4.8	–
J2055.0+0016	0.15	I	57 ± 1.8	1.73 ± 0.2	–	10.46 ± 5.98	–	5.29 ± 3.36	5.01 ± 2.68
J2055.2–0019	2.09	H	41 ± 1.3	1.62 ± 0.14	–	–	2.08 ± 0.94	13.31 ± 4.49	7.11 ± 3.05
J2056.2–4714	1.49	F	2400 ± 480	2.26 ± 0.03	109.04 ± 4.17	324.87 ± 8.81	53.92 ± 2.42	80.04 ± 8.56	11.05 ± 3.25
J2108.6–0250	0.15	H	127 ± 3.8	1.94 ± 0.18	–	–	1.93 ± 0.98	7.22 ± 3.42	–
J2110.0+0812	1.58	F	77 ± 2.4	2.33 ± 0.07	16.67 ± 4.11	25.19 ± 7.31	8.7 ± 1.52	20.45 ± 5.34	–
J2110.3–1013	2.5	F	1190 ± 35.8	2.71 ± 0.12	13.51 ± 3.32	35.74 ± 6.2	2.04 ± 1.15	–	–
J2115.4+2933	1.51	F	756 ± 22.7	2.37 ± 0.06	25.17 ± 4.01	48.92 ± 6.67	7.99 ± 1.42	24.81 ± 5.49	9.57 ± 3.14
J2116.1+3339	0.35	H	116 ± 3.5	1.91 ± 0.03	15.19 ± 3.82	65.97 ± 6.39	21.03 ± 1.79	103.15 ± 9.36	34.04 ± 5.34
J2118.4+0013	0.46	F	149 ± 4.5	1.94 ± 0.19	–	9.06 ± 4.58	–	5.6 ± 3.32	3.48 ± 2.15
J2121.0+1901	2.18	F	698 ± 20.9	2.16 ± 0.04	21.4 ± 3.09	66.89 ± 6.11	16.98 ± 1.62	52.48 ± 7.1	6.73 ± 2.73
J2123.6+0533	1.94	F	794 ± 23.8	2.17 ± 0.12	–	18.55 ± 5.04	3.67 ± 1.16	10.03 ± 4.33	–
J2127.7+3612	0.57	H	192 ± 5.8	1.9 ± 0.07	5.16 ± 3.2	21.76 ± 5.71	6.5 ± 1.29	33.3 ± 6.34	11.77 ± 3.4
J2130.8–2745	0.57	H	37 ± 1.5	1.7 ± 0.11	–	–	3.35 ± 1	16.06 ± 4.19	4.73 ± 2.44
J2131.5–0915	0.45	H	44 ± 1.7	2.02 ± 0.09	6.89 ± 2.65	26.63 ± 5	4.08 ± 1.07	16.39 ± 4.6	11.57 ± 3.43
J2134.1–0152	1.28	L	1690 ± 59.7	2.21 ± 0.06	10.35 ± 2.88	41.42 ± 5.38	8.55 ± 1.34	25.8 ± 5.35	–
J2141.7–3734	0.42	F	397 ± 11.9	2.59 ± 0.11	10.53 ± 3.15	30.67 ± 5.07	1.43 ± 0.95	6.42 ± 3.48	–
J2143.1–3928	0.43	I	143 ± 5.7	2.07 ± 0.13	6.01 ± 2.78	13.91 ± 4.31	3.43 ± 0.98	8.44 ± 3.49	5.52 ± 2.61
J2143.5+1744	0.21	F	652 ± 19.6	2.4 ± 0.04	108.26 ± 4.86	257.13 ± 9	38.84 ± 2.27	49.89 ± 7.22	6.3 ± 2.58
J2144.9–3356	1.36	F	94 ± 2.9	2.3 ± 0.06	12.49 ± 2.7	51.66 ± 4.94	10.01 ± 1.29	19.45 ± 4.96	–
J2145.7+0717	0.24	I	102 ± 3.7	2.66 ± 0.13	20.26 ± 3.93	17.3 ± 5.66	2.85 ± 1.15	5.59 ± 3.29	3.59 ± 1.97
J2146.6–1344	0.57	H	23 ± 0.8	1.66 ± 0.07	–	–	6.92 ± 1.25	30.53 ± 5.69	16.56 ± 4.12
J2146.7–1527	0.7	F	733 ± 25.9	2.46 ± 0.12	6.86 ± 3.91	22.93 ± 5.28	2.93 ± 1	–	–
J2147.2+0929	1.11	F	960 ± 28.8	2.38 ± 0.05	53.37 ± 5.57	157.62 ± 7.51	20.78 ± 1.8	27.87 ± 5.73	3.16 ± 2.1
J2147.3–7536	1.14	F	1500 ± 150	2.34 ± 0.03	116.28 ± 3.5	281.5 ± 8.19	46.59 ± 2.27	65.63 ± 7.72	7.73 ± 2.74
J2149.7+0323	0.57	I	100 ± 3.6	2.15 ± 0.1	7.35 ± 2.88	16.13 ± 4.97	5.73 ± 1.16	16.9 ± 4.53	–
J2151.6–2744	1.48	F	315 ± 9.5	2.51 ± 0.15	–	23.11 ± 4.82	2.36 ± 0.92	–	–
J2151.8–3025	2.35	F	1240 ± 37.3	2.61 ± 0.08	80.03 ± 4.59	121.64 ± 7.54	5.82 ± 1.24	–	–
J2152.4+1735	0.87	L	681 ± 20.4	2.05 ± 0.2	–	–	1.96 ± 0.94	9.22 ± 3.77	–
J2154.0–1137	1.58	F	93 ± 2.8	2.49 ± 0.07	16.25 ± 3.15	44.46 ± 5.53	6.07 ± 1.2	9.93 ± 3.9	–
J2156.9–0855	1.02	I	22 ± 0.8	1.9 ± 0.17	–	–	3.24 ± 0.95	–	3.73 ± 2.3
J2157.5+3126	1.49	F	424 ± 12.7	2.12 ± 0.04	56.19 ± 4.24	209.62 ± 8.3	50.43 ± 2.41	89.3 ± 8.6	8.18 ± 2.73
J2158.0–1501	0.67	F	3020 ± 90.6	2.27 ± 0.07	14.97 ± 3.22	36.42 ± 5.33	8.51 ± 1.28	16.78 ± 4.61	6.65 ± 2.85
J2158.8–3013	0.12	H	490 ± 19	1.75 ± 0.02	64.69 ± 4.48	361.65 ± 9.17	134.21 ± 3.58	573.37 ± 20.99	239.8 ± 13.52
J2200.2+2139	0.57	L	209 ± 6.3	1.98 ± 0.21	5.16 ± 2.78	–	1.48 ± 0.95	6.62 ± 3.4	3.67 ± 1.98
J2201.7+5047	1.9	F	770 ± 23.1	2.59 ± 0.04	63.41 ± 4.76	144.21 ± 9.19	22.95 ± 2.05	29.63 ± 6.12	–
J2202.4–8339	1.87	F	1080 ± 108	2.43 ± 0.07	34.36 ± 6.64	96.73 ± 8.15	18.43 ± 1.75	23.94 ± 5.36	–
J2202.7+4217	0.07	L	6130 ± 120	2.16 ± 0.02	203.1 ± 4.09	594.82 ± 11.39	128.05 ± 3.57	299.92 ± 14.81	57.56 ± 6.54
J2203.4+1725	1.08	F	593 ± 17.8	2.15 ± 0.04	51.96 ± 3.4	173.66 ± 7.47	40.32 ± 2.18	73.51 ± 8.14	18.15 ± 4.09
J2203.7+3143	0.29	F	1850 ± 60	3.07 ± 0.19	18.37 ± 5.03	27.73 ± 6.91	3.22 ± 1.17	–	–
J2204.4+0439	0.03	I	467 ± 16.2	2.12 ± 0.11	–	12.21 ± 4.68	5.1 ± 1.07	–	4.67 ± 2.34

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J2206.9–0031	0.34	L	152 ± 4.6	2.25 ± 0.1	4.88 ± 2.87	22.55 ± 5.18	5.8 ± 1.27	13.49 ± 4.19	–
J2207.8–5345	1.21	F	3030 ± 160	2.58 ± 0.06	24.33 ± 2.78	39.26 ± 4.67	7.91 ± 1.13	9.07 ± 3.67	–
J2212.0+2355	1.13	F	557 ± 16.7	2.21 ± 0.07	11.06 ± 4.08	34.35 ± 5.54	9.1 ± 1.33	22.93 ± 5.02	5.59 ± 2.5
J2213.1–2532	1.83	F	1210 ± 36.3	2.55 ± 0.1	10.74 ± 2.74	25.95 ± 4.65	5.34 ± 1.09	9.1 ± 3.81	–
J2217.0+2421	0.51	L	528 ± 15.9	2.22 ± 0.08	11.54 ± 4.14	33.48 ± 5.51	7.08 ± 1.26	16.9 ± 4.58	5.61 ± 2.46
J2219.2+1806	1.8	F	159 ± 4.8	2.5 ± 0.13	7.94 ± 3.06	22.31 ± 5.01	3.02 ± 0.96	5.24 ± 2.97	–
J2222.3–3500	0.3	F	850 ± 25.5	2.37 ± 0.18	3.47 ± 2.31	8.56 ± 3.6	2.87 ± 0.84	–	–
J2224.6–1122	0.12	L	559 ± 19.8	2.45 ± 0.14	9.15 ± 3.34	15.88 ± 4.73	2.04 ± 0.95	11.39 ± 4.17	–
J2225.8–0454	1.4	F	6200 ± 110	2.36 ± 0.04	27.9 ± 3.2	91.13 ± 6.51	16.26 ± 1.61	31.91 ± 6.09	–
J2227.8+0040	2.15	I	102 ± 3.1	2.14 ± 0.09	–	28.32 ± 5.46	5.46 ± 1.17	14.39 ± 4.64	–
J2229.7–0833	1.56	F	969 ± 29.1	2.39 ± 0.04	98.78 ± 3.8	216.12 ± 7.97	33.53 ± 2.08	39.76 ± 6.48	–
J2232.5+1143	1.04	F	7200 ± 216	2.34 ± 0.03	124.39 ± 4.38	303.07 ± 9.12	45.06 ± 2.31	49.68 ± 6.99	6.55 ± 2.6
J2235.3–4835	0.51	F	1080 ± 108	2.49 ± 0.07	14.97 ± 2.78	42.03 ± 4.62	7.38 ± 1.14	11.04 ± 3.97	–
J2236.0–1706	0.65	F	309 ± 10.9	2.13 ± 0.16	–	6.66 ± 4.17	3.31 ± 1.01	6.99 ± 3.63	–
J2236.0–3629	0.57	L	68 ± 2.1	2.2 ± 0.07	7.8 ± 2.38	31.01 ± 4.26	6.46 ± 1.05	15.03 ± 4.2	3.61 ± 2.03
J2236.3+2829	0.8	L	1100 ± 33.1	2.12 ± 0.04	48.31 ± 2.88	158.63 ± 6.89	38.94 ± 2.11	66.08 ± 7.68	8.24 ± 2.82
J2236.5–1432	0.33	L	542 ± 16.3	2.04 ± 0.03	51.09 ± 3.65	206.15 ± 7.6	56.06 ± 2.5	124.7 ± 10.36	26.32 ± 4.94
J2237.1–3921	0.3	F	175 ± 6.2	2.23 ± 0.09	8.02 ± 3.26	21.93 ± 4.38	5.05 ± 1.01	11.76 ± 3.73	3.52 ± 2.07
J2240.9+4121	0.73	L	336 ± 10.1	2.2 ± 0.16	–	21.37 ± 7.65	1.68 ± 1.12	8.51 ± 3.79	–
J2243.4–2541	0.77	L	1100 ± 33.1	2.27 ± 0.05	20.4 ± 3.05	58.7 ± 5.12	14.48 ± 1.43	31.73 ± 5.72	2.96 ± 1.97
J2243.9+2021	0.57	H	109 ± 3.3	1.79 ± 0.03	11.75 ± 3.15	57.12 ± 5.44	27.33 ± 1.81	115.46 ± 9.69	57.12 ± 6.95
J2247.8+4413	0.57	H	71 ± 2.6	1.8 ± 0.14	–	7.83 ± 5.19	3.88 ± 1.16	5.97 ± 3.48	9.29 ± 2.96
J2248.6–3235	2.27	F	708 ± 21.2	2.82 ± 0.14	11.02 ± 2.61	21.13 ± 4.46	2.08 ± 0.8	–	–
J2251.9+4031	0.23	I	92 ± 2.8	2.25 ± 0.08	13.26 ± 5.02	28.15 ± 5.89	6.27 ± 1.23	26.56 ± 5.29	–
J2254.0+1403	0.33	I	12 ± 0.6	2.24 ± 0.21	–	16.55 ± 7.94	2.09 ± 1.06	5.87 ± 3.11	3.94 ± 2.27
J2254.0+1608	0.86	F	12100 ± 140	1.63 ± 0.01	1763.53 ± 14.17	5049.66 ± 28.28	891.91 ± 8.66	1498.16 ± 33.15	109.09 ± 9.01
J2255.1+2411	0.57	L	82 ± 3	2.02 ± 0.09	–	13.76 ± 5.21	8.29 ± 1.28	15.24 ± 4.47	6.29 ± 2.65
J2256.7–2011	0.57	L	345 ± 10.4	2.09 ± 0.07	7.28 ± 2.26	26.86 ± 4.38	6.83 ± 1.13	23.31 ± 5.12	5.34 ± 2.56
J2258.0–2759	0.93	F	1250 ± 37.5	2.17 ± 0.04	67.49 ± 3.64	211.23 ± 7.71	36.39 ± 2.06	57.81 ± 7.5	–
J2304.6+3704	0.57	H	23 ± 0.8	1.82 ± 0.11	7.73 ± 2.77	17.07 ± 4.74	2.52 ± 1.03	15.89 ± 4.64	13.78 ± 3.47
J2307.4–1208	0.57	H	7 ± 0.5	1.77 ± 0.19	–	7.33 ± 3.47	1.47 ± 0.73	–	6.81 ± 2.9
J2307.7+1449	0.5	L	109 ± 3.3	2.24 ± 0.08	12.15 ± 5.07	33.75 ± 6.6	8.94 ± 1.47	19.08 ± 5.32	7.55 ± 2.91
J2311.0+0204	0.57	L	63 ± 1.9	2.27 ± 0.11	–	22.04 ± 4.9	3.68 ± 1.03	6.35 ± 3.35	3.87 ± 2.26
J2311.0+3425	1.82	F	980 ± 29.4	2.19 ± 0.03	78.16 ± 3.61	226.87 ± 7.7	45.33 ± 2.23	90.48 ± 8.41	6.36 ± 2.53
J2319.2–4207	0.05	H	1000 ± 100	2.1 ± 0.13	–	13.9 ± 3.91	2.52 ± 0.82	8.58 ± 3.37	4.3 ± 2.22
J2321.6+4438	1.31	F	364 ± 10.9	2.64 ± 0.16	11.72 ± 3.21	17.5 ± 5.45	–	–	–
J2321.9+2732	1.25	F	1320 ± 39.6	2.28 ± 0.08	11.11 ± 3.01	21.79 ± 5.14	6.09 ± 1.21	14.63 ± 4.52	4.08 ± 2.29
J2321.9+3204	1.49	F	253 ± 8.9	2.07 ± 0.07	16.77 ± 2.63	74.57 ± 5.92	16.95 ± 1.57	36.76 ± 6.17	4.39 ± 2.34
J2322.5+3436	0.1	H	96 ± 2.9	1.44 ± 0.2	–	10.63 ± 4.11	–	6.24 ± 3.3	6.02 ± 2.5
J2323.5–0315	1.41	F	928 ± 27.9	2.16 ± 0.05	36.57 ± 2.93	124.45 ± 6.63	23.49 ± 1.82	51.39 ± 7.19	6 ± 2.63
J2323.9+4211	0.06	H	11 ± 1	1.89 ± 0.05	10.69 ± 3.03	29.01 ± 5.11	11.7 ± 1.42	45.35 ± 6.32	22.41 ± 4.27
J2325.2+3957	0.57	L	114 ± 3.4	1.85 ± 0.08	–	42.09 ± 5.05	13.38 ± 1.47	47.03 ± 6.69	8.97 ± 2.88
J2325.3–3557	0.36	F	87 ± 3.1	2 ± 0.07	15.05 ± 2.35	71.65 ± 4.96	18.05 ± 1.48	38.34 ± 6.16	–

表 3 续
Table 3 Continued

3FGL name	z	C	$f_{1.4}$ /mJy	Γ	0.01 $N_{0.1}^{0.3}$	0.1 $N_{0.3}^{1}$	0.1 N_{1}^{3}	N_{3}^{10}	N_{10}^{100}
					/(10^{-11} photon $\cdot$ cm^{-2} $\cdot$ s^{-1})				
J2327.7+0941	1.84	F	742 ± 22.3	2.68 ± 0.05	51.25 ± 5.83	82.2 ± 6.95	12.39 ± 1.46	6.13 ± 3.62	–
J2329.2+3754	0.26	H	20 ± 0.8	1.93 ± 0.09	5.12 ± 2.9	21.32 ± 5.12	3.53 ± 1.11	18.75 ± 4.69	12.46 ± 3.42
J2329.3–4955	0.52	F	650 ± 65	2.12 ± 0.02	183.17 ± 4.42	576.35 ± 10.58	121.15 ± 3.32	211.49 ± 12.61	21.25 ± 4.27
J2329.9–4734	1.3	F	2320 ± 232	2.23 ± 0.16	–	9.69 ± 5.05	3.71 ± 0.97	4.58 ± 2.76	2.98 ± 1.9
J2330.4–3726	0.28	L	305 ± 9.2	2.32 ± 0.15	4.44 ± 2.84	11.12 ± 3.99	2.77 ± 0.85	4.67 ± 2.69	–
J2330.5+1104	1.49	F	1200 ± 36.1	2.56 ± 0.11	13.83 ± 4.55	24.59 ± 5.86	3.96 ± 1.1	4.84 ± 3.11	–
J2330.8–2144	0.56	F	49 ± 1.6	2.23 ± 0.07	24.8 ± 2.68	72.35 ± 5.47	12.83 ± 1.43	23.26 ± 5.12	–
J2334.1+0732	0.4	F	631 ± 18.9	2.5 ± 0.08	19.32 ± 3.83	37.56 ± 5.91	5.33 ± 1.19	–	3.51 ± 2.22
J2334.8+1432	0.42	I	64 ± 2	1.88 ± 0.06	–	24.36 ± 4.72	9.35 ± 1.32	36.95 ± 6.04	12.31 ± 3.47
J2335.1–0133	1.18	F	725 ± 21.7	2.46 ± 0.14	–	20.76 ± 5.64	3.21 ± 1.03	6.62 ± 3.73	–
J2336.5–4116	1.41	F	460 ± 46	2.24 ± 0.07	8.65 ± 3.19	33.16 ± 4.81	9.98 ± 1.26	11.47 ± 3.84	–
J2338.1–0229	1.07	F	649 ± 22.9	2.5 ± 0.06	28.8 ± 4.87	67.15 ± 6.43	11.2 ± 1.43	12.5 ± 4.49	–
J2339.0+2122	0.29	I	46 ± 1.4	2.18 ± 0.12	6.53 ± 2.72	12.24 ± 4.35	3.18 ± 1.03	9.04 ± 3.86	4.04 ± 2.12
J2340.7+8016	0.27	H	49 ± 1.5	1.92 ± 0.04	7.66 ± 2.8	51.58 ± 5.1	16.31 ± 1.43	71.01 ± 6.91	23.06 ± 3.82
J2343.6+1551	1.45	F	149 ± 4.5	2.66 ± 0.15	8.08 ± 3.2	17.3 ± 4.83	–	–	–
J2343.7+3437	0.37	H	35 ± 1.5	1.75 ± 0.16	3.51 ± 2.31	–	1.48 ± 0.81	9.4 ± 3.85	5.15 ± 2.24
J2345.2–1554	0.62	F	227 ± 6.8	2.02 ± 0.02	80.86 ± 5.42	308 ± 10.22	84.09 ± 3.07	246.17 ± 14.31	45.11 ± 6.34
J2347.0+5142	0.04	H	251 ± 8.8	1.78 ± 0.04	8.5 ± 2.56	38.23 ± 5.31	16.73 ± 1.55	60.69 ± 7.11	28.1 ± 4.53
J2348.0–1630	0.58	F	1710 ± 70	2.2 ± 0.05	18.79 ± 5.97	88.71 ± 8.66	17.85 ± 1.88	64.15 ± 8.14	11.05 ± 3.37
J2350.4–3004	0.22	H	38 ± 1.2	2.08 ± 0.13	7.25 ± 2.57	11.41 ± 4.41	4.69 ± 1	8.94 ± 3.49	4.56 ± 2.35
J2352.0+1752	1.45	H	45 ± 1.4	2.01 ± 0.12	5.59 ± 2.65	–	4 ± 1.01	14.93 ± 4.13	–
J2353.6–3037	0.74	L	398 ± 14	2.28 ± 0.13	–	17.1 ± 4.87	3.34 ± 0.97	9.73 ± 3.53	–
J2354.1+4605	1.99	F	1870 ± 56.2	2.48 ± 0.12	5.66 ± 2.96	19.84 ± 5.13	4.51 ± 1.06	–	–
J2355.5+8154	1.34	F	521 ± 15.6	2.87 ± 0.19	16.52 ± 3.27	18.87 ± 5.24	2.74 ± 1.01	–	–
J2356.0+4037	0.33	H	25 ± 0.9	1.72 ± 0.14	–	10.41 ± 4.34	–	13.84 ± 4.28	6.36 ± 2.5
J2357.3–0150	0.81	L	234 ± 7	2.12 ± 0.16	–	11.78 ± 4.26	1.5 ± 0.8	7.17 ± 3.53	–
J2357.4–1716	0.57	H	44 ± 1.7	1.8 ± 0.13	–	–	2.47 ± 0.85	11.17 ± 3.81	5.47 ± 2.59
J2357.8–5310	1.01	F	1610 ± 161	2.46 ± 0.07	–	52.12 ± 6.38	7.01 ± 1.24	8.59 ± 3.27	–
J2358.2–1022	1.64	F	769 ± 27.1	2.8 ± 0.13	12.49 ± 2.94	23.45 ± 4.77	1.47 ± 0.8	–	–
J2358.9+3926	1.2	F	421 ± 12.6	2.21 ± 0.18	–	10.01 ± 5.69	3.11 ± 1.04	–	4.89 ± 2.34
J2359.3–3038	0.17	H	65 ± 2.7	2.02 ± 0.12	7.71 ± 2.81	12.3 ± 4.06	4.37 ± 0.97	12.68 ± 3.95	5.57 ± 2.51
J2359.5–2052	0.1	H	473 ± 16.6	2.02 ± 0.16	4.57 ± 2.26	5.63 ± 3.52	1.99 ± 0.77	5.92 ± 3.06	5.46 ± 2.5