Péter Veres

Publications

1. *Analysis of Sub-threshold Short Gamma-ray Bursts in Fermi GBM Data*
   Kocevski, D., . . . P. Veres et al.
   ApJ accepted, (arXiv:1806.02378)
2. *The Origin of the Optical Flashes: The Case Study of GRB 080319B and GRB 130427A*
   Fraija, N., Veres P.
   ApJ, **859**, 70, (2018) (arXiv:1804.02449)
3. *Light curves of a merger shock-breakout material ejected from a Binary Neutron Star system*
   Fraija, N., Veres P..
   ApJ submitted, (arXiv:1803.02978)
4. *Gamma-ray burst models in light of the GRB 170817A - GW170817 connection*
   Veres P., et al.
   ApJ submitted, (arXiv:1802.07328)
5. *On the Interpretation of the Fermi-GBM Transient Observed in Coincidence with LIGO Gravitational-wave Event GW150914*
   V. Connaughton, . . . , P. Veres, et al.
   ApJL, **853**, 9, (2018) (arXiv:1801.02305)
6. *Multi-messenger Observations of a Binary Neutron Star Merger*
   Abbott, B.P.;. . . P. Veres, et al.
   ApJL, **848**, 12, (2017) (arXiv:1710.05833)
7. *Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A*
   Abbott, B.P.;. . . P. Veres, et al.
   ApJL, **848**, 13, (2017) (arXiv:1710.05834)
8. *An Ordinary Short Gamma-Ray Burst with Extraordinary Implications: Fermi-GBM Detection of GRB 170817A*
   Goldstein, A.; Veres P., et al.
   ApJL, **848**, 14, (2017) (arXiv:1710.05446)
9. *Fermi Observations of the LIGO Event GW170104*
   Goldstein, A.; Veres P., et al.
   ApJL, **846**, 5, (2017) (arXiv:1706.00199)
10. *Modeling the High-energy Emission in GRB 110721A and Implications on the Early Multiwavelength and Polarimetric Observations*
    Fraija, N.; Veres P., et al.
    ApJ, **848**, 94, (2017) (arXiv:1709.06263)
11. *Theoretical Description Of GRB 160625B with Wind-to-ISM Transition and*

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Implications for a Magnetized Outflow
Fraija, N.; Veres P., et al.
ApJ, **848**, 15, (2017) (arXiv:1705.09311)

12. *Properties of the Intergalactic Magnetic Field Constrained by Gamma-ray Observations of Gamma-Ray Bursts*
Veres P.,; Dermer, C. D.; Dhuga, K. S.
ApJ, **847**, 39, (2017) (arXiv:1705.08531)
13. *High-energy emission as signature of magnetic field amplification in Neutron Star Mergers*
Fraija, Nissim; Lee, William H.; Veres, Péter; Barniol Duran, Rodolfo
(arXiv:1701.01184)
14. *Searching the Gamma-Ray Sky for Counterparts to Gravitational Wave Sources: /Fermi GBM and LAT Observations of LVT151012 and GW151226*
Racusin, J. L.; ...; Veres P., et al.
ApJ, **835**, 82, (2017) (arXiv:1606.04901)
15. *Updates to the Fermi-GBM Short GRB Targeted Offline Search in Preparation for LIGO's Second Observing Run*
Goldstein, A.; Burns, E.; Hamburg, R.; Connaughton, V.; Veres P.; Briggs, M. S.; Hui, C. M.; The GBM-LIGO Collaboration.
Research note (arXiv:1612.02395)
16. *High-Energy Non-Thermal and Thermal Emission from GRB141207A detected by Fermi*
Arimoto, Makoto; Asano, Katsuaki; Ohno, Masanori; Veres, Péter; Axelsson, Magnus; Bissaldi, Elisabetta; Tachibana, Yutaro; Kawai, Nobuyuki.
ApJ, **833**, 139, (2016) (arXiv:1610.04867)
17. *Modeling the early afterglow in the short and hard GRB 090510*
Fraija, Nissim; Lee, William H.; Veres, Péter; Barniol Duran, Rodolfo
ApJ, **831**, 22, (2016) (arXiv:1608.01420)
18. *Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914*
Abbot,B. P.,..., P. Veres, et al.
ApJ, **826**, 13, (2016) (arXiv:1602.08492)
19. *Gravitational wave observations may constrain gamma-ray burst models: the case of GW 150914 - GBM*
Veres P., Preece, R. D.; Goldstein, A.; Mészáros, P.; Burns, E.; Connaughton, V.
ApJL, **827**, 34, (2016) (arXiv:1607.02616)
20. *Fermi GBM Observations of LIGO Gravitational Wave event GW150914*
V. Connaughton, ..., P. Veres, et al.
ApJ, **826**, 6, (2016) (arXiv:1602.03920)
21. *The Third Fermi GBM Gamma-Ray Burst Catalog: The First Six Years*
Narayana Bhat, P.; ..., Péter Veres, et al.
ApJS, **223**, 28, (2016) (arXiv:1603.07612)
22. *The Fermi GBM gamma-ray burst time-resolved spectral catalog: brightest bursts in the first four years*
Yu, Hoi-Fung, ..., Veres, Péter, et al.,
A&A, **588**, 135, (2016), (arXiv:1601.05206)
23. *Modeling the early multiwavelength emission in GRB130427A*

Fraija, Nissim; Lee, William H.; Veres, Péter
ApJ, **818**, 190, (2016), (arXiv:1601.01264)

24. *Fermi GBM Observations of V404 Cyg During its 2015 Outburst*
Jenke, P. A.; Wilson-Hodge, C. A.; Homan, Jeroen; Veres P.; Briggs, M. S.; Burns, E.; Connaughton, V.; Finger, M. H.; Hui, M.
ApJ, **826**, 37, (2016), (arXiv:1601.00911)
25. *Happy Birthday Swift: Ultra-long GRB 141121A and its broad-band Afterglow*
A. Cucchiara, P. Veres, A. Corsi, S. B. Cenko, D. A. Perley, et al.,
ApJ, **812**, 122, (2015), (arXiv:1510.00996)
26. *Early-time VLA observations and broad-band afterglow analysis of the Fermi-LAT detected GRB 130907A*
Péter Veres, Alessandra Corsi, Dale A. Frail, S. Bradley Cenko, Daniel Perley
ApJ, **810**, 31, (2015) (arXiv:1411.7368)
27. *Gamma-ray Bursts: Temporal Scales and the Bulk Lorentz Factor*
Sonbas, E.; MacLachlan, G. A.; Dhuga, K. S.; Veres P.; Shenoy, A.; Ukwatta, T. N.
ApJ, **805**, 86, (2015), (arXiv:1408.3042)
28. *Constraints on Very High Energy Emission from GRB 130427A*
E. Aliu, . . . , P. Veres (corresponding author) et al.
ApJL, **795**, 3, (2014), (arXiv:1410.5367)
29. *An Observed Correlation Between Thermal and Non-Thermal Emission in Gamma-Ray Bursts*
Burgess, J. Michael; Preece, Robert D.; Ryde, Felix; Veres, Péter (corresponding author); et al.
ApJL, **784**, 43, (2014), (arXiv:1403.0374)
30. *Prospects for GeV-TeV detection of short gamma-ray bursts with extended emission*
P. Veres, P. Mészáros,
ApJ, **787**, 168, (2014), (arXiv:1312.0590)
31. *Cherenkov Telescope Array is Well-suited to Follow Up Gravitational-wave Transients*
Bartos, Imre; Péter Veres; Nieto, Daniel; Connaughton, Valerie; Humensky, Brian; Hurley, Kevin; Márka, Szabolcs; Mészáros, Péter; Mukherjee, Reshmi; O'Brien, Paul; Osborne, Julian P.
MNRAS, **738**, 49, (2014), (arXiv:1403.6119)
32. *Evidence for the Connection between Prompt and X-ray Afterglow emission of Swift-Detected Gamma-Ray Bursts*
D. Grupe; J. A. Nousek; P. Veres; B.-B. Zhang; N. Gehrels
ApJ Supplement Series, **209**, 20, (2013), (arXiv:1305.3236)
33. *The obscured hyper-energetic GRB120624B hosted by a luminous compact galaxy at z=2.20*
A. de Ugarte Postigo; S. Campana; C.C. Thöne; P. D'Avanzo; R. Sanchez-Ramirez; A. Melandri; J. Gorosabel; G. Ghirlanda; P. Veres; S. Martin; G. Petitpas; S. Covino; J.P.U. Fynbo; A.J. Levan
A&A, **557**, 18, (2013), (arXiv:1309.1167)
34. *Magnetically and Baryonically Dominated Photospheric Gamma-Ray Burst Model Fits to Fermi LAT Observations*
P. Veres; B.-B. Zhang; P. Mészáros
ApJ, **764**, 94, (2013), (arXiv:1210.7811)
35. *The extremely high peak energy of GRB 110721A in the context of a dissipative photosphere synchrotron emission model*
P. Veres; B.-B. Zhang; P. Mészáros

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36. *Searching for galactic sources in the Swift GRB catalog*
Statistical analyses of the angular distrbutions of FREDs
Tello J.C., Castro-Tirado A.J., Gorosabel J., Perez-Ramırez D., Guziy S., P. Veres, Bagoly Z.
A&A Letters, **548**, 7, (2012), (arXiv:1210.3699)
37. *Single- and Two-component Gamma-Ray Burst Spectra in the Fermi GBM-LAT Energy Range*
P. Veres, P. Mészáros
ApJ, **755**, 12, (2012), (arXiv:1202.2821)
38. *On the Spectral Lags and Peak Counts of the Gamma-Ray Bursts Detected by the RHESSI Satellite*
J. Ripa; A. Mészáros, ; P. Veres, I.H. Park
ApJ, **756**, 44, (2012), (arXiv:1206.6198)
39. *Characteristics of Swift's intermediate-population bursts*
de Ugarte Postigo, A.; Horváth, I.; P. Veres; Bagoly, Z.; Kann, D. A. et al.
A&A, **525**, A109, (2011), (arXiv:1006.4469)
40. *A distinct peak-flux distribution of the third class of gamma-ray bursts: A possible signature of X-ray flashes?*
P. Veres, Bagoly, Z; Horváth, I; Mészáros, A; Balázs, L.G.
ApJ, **725**, 1955, (2010), (arXiv:1010.2087)
41. *Physical parameters of a relativistic jet at very high redshift: the case of the blazar J1430+4204*
P. Veres, Frey, S; Paragi, Z; Gurvits, L
A&A, **521**, 6, (2010)
42. *Investigating gamma-ray burst data reduction techniques with Swift's instruments*
P. Veres
Advances in Space Research (2011), **47**, 1356
43. *Investigating gamma- and X-ray properties of GRBs using multivariate statistics*
Balázs, L.G., P. Veres
Advances in Space Research (2011), **47**, 1404
44. *Detailed Classification of Swift's Gamma-Ray Bursts*
Horváth, I; Bagoly, Z; Balázs, L.G., de Ugarte Postigo, A, P. Veres, Mészáros, A;
Astrophysical Journal, **713**, 552, (2010)
45. *Detection of the ultra-high z short GRB 080913 and its implications on progenitors and energy extraction mechanisms*
Perez-Ramirez, D.;. . . P. Veres; et al.
A&A, **510**, A105, (2010)
46. *Gamma-ray bursts: connecting the prompt emission with the afterglow*
P. Veres, Bagoly, Z.
Baltic Astronomy, **18**, 284 (2009)
47. *Impact on cosmology of the celestial anisotropy of the short gamma-ray bursts*
A. Mészáros, L. G. Balázs, Z. Bagoly, P. Veres
Baltic Astronomy, **18**, 293 (2009)
48. *Classification of Swift's gamma-ray bursts*
I. Horváth, L. G. Balázs, Z. Bagoly, P. Veres
Astronomy and Astrophysics, **489**, L1 (2008)
49. *Model-independent methods of describing GRB spectra using BATSE MER data*

P. Veres, Horváth I., Bagoly Z., Balázs L., Mészáros A., Tusnády G., Ryde F.
Il Nuovo Cimento B, **121**, 1609, (2006), (arXiv:1001.0286)

50. *Analysis of the BATSE continuous MER data*
P. Veres, Horváth I., Balázs L.: Il Nuovo Cimento C **28**, 355, (2005) (arXiv:0510323)

Talks, Seminars

1. IAU 2017 Symposium Gravitational Wave Astrophysics, October 16-19, 2017 Baton Rouge, Louisiana
Results from electromagnetic counterpart search programs with Fermi GBM (talk)
2. GW170817: The First Double Neutron Star Merger, Dec 5-8, 2017, Santa Barbara, CA
Fermi GBM observations of GRB 170817A (invited talk)
3. Columbia University Rapid Response Workshop: Binary NS Merger, 2017 October
Fermi GBM observations of GRB 170817A (talk)
4. European Week of Astronomy and Space Science, June 26-30, 2017, Prague, CZ
Photospheric models for gamma-ray burst prompt emission (invited talk)
5. 8^{th} Huntsville Gamma-Ray Burst Symposium, October 24-28, 2016
Central Engines and Radiation Mechanisms of Gamma-Ray Bursts (invited talk)
6. Charles University Astrophysics seminar, June 29, 2017
Fermi satellite, gravitational waves detected by Advanced LIGO and the gamma-ray bursts
7. Columbia University Dept. of Astronomy seminar, October 31, 2013
Photospheric emission from GRB models with general dynamics and fits to Fermi LAT observations
8. Fifth International Fermi Symposium, October 20-24, 2014, Nagoya, Japan
Hints of the Jet Composition in Gamma-ray Bursts from Dissipative Photosphere Models (talk)
9. COSPAR meeting, 2-10 August 2014, Moscow, Russia
TeV range detection prospects of short gamma-ray bursts with extended emission episodes (talk)
10. The Unquiet Universe, 2-14 June 2014, Cefalù, Italy
TeV range detection prospects of short gamma-ray bursts with extended emission episodes (talk)
11. Gamma-Ray Bursts 2012 Conference, 7-11 May 2012, Munich, Germany
Single- and two-component gamma-ray burst spectra in the Fermi GBM-LAT energy range (talk)
12. Bolyai-Gauss-Lobachevsky Conference, Cluj-Napoca, Romania 5 - 9 July 2010
Graviational Lensing Signatures in Gamma-Ray Burst Lightcurves (talk)
13. 5th Conference of Young Researchers in Astronomy and Astrophysics, Budapest, 2009 Sept. 2-4
Surpisingly strong outburst of an AGN at redshift z=4.7 (talk)
14. 6th Integral/BART Workshop, Karlovy Vary, Czech Republic, 26-29 March 2009
Gamma-ray bursts: connecting the prompt emission with the afterglow