

# Péter Veres | Curriculum Vitae

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## Research interests

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- **Gamma-ray burst theory:** prompt emission modeling, jet composition, high (GeV) and very high (TeV) energy emission, polarization, multi-messenger aspects
- **Gamma-ray burst analysis:** GRBs as counterparts to gravitational waves, sensitivity limit determination, sub-threshold searches
- **Other interests:** gravitational waves, active galactic nuclei, intergalactic magnetic field, X-ray binaries, Crab nebula

## Positions

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- **University of Alabama in Huntsville** 2018.8–  
*Research Scientist*
- **University of Alabama in Huntsville** advisor: **Michael Briggs**  
*Postdoctoral Scholar* 2015.5–2018.8
- **George Washington University** advisors: **Alessandra Corsi, Kalvir Dhuga**  
*Postdoctoral Scholar* 2014.0–2015.5
- **Pennsylvania State University** advisor: **Péter Mészáros**  
*Postdoctoral Scholar* 2011.6–2014.0
- **Eötvös Loránd University** advisors: **Zsolt Bagoly, István Horváth**  
*Graduate student - PhD* 2007.7–2011.6

## Awards

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- Bruno Rossi prize, as part of the Fermi-GBM team (2018)
- CSPAR (departmental) Science Achievement Award (2017)
- NASA Space Flight Awareness Award, as part of the Fermi-GBM team (2017)
- NASA Group Achievement Award, as part of the Fermi-GBM team (2016)
- Hungarian Scientific Research Fund Grant (2009-)
- National Science Fund Ireland - Graduate Scholarship (2006-2007)
- National Scientific Competition (astrophysics): honorable mention (2005)
- Hungarian State Scholarship for Students from outside Hungary (2001-2006)
- Math. competition of Hungarian nationals (high school level): 1<sup>st</sup> prize (2001)

## Grants

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### Principal investigator.....

- State of the art atmospheric scattering model for Fermi-GBM: possible polarization measurement and improved localizations (Fermi-Guest Investigator, \$65k, 2020-21)
- Gamma-ray Bursts Similar to GRB 170817A: Comprehensive Search in the BATSE and Swift Data (NASA-Astrophysics Data Analysis Program, \$120k, 2018-2020)
- Is There a Relation between prompt grb polarization and spectral Parameters? Answers from Fermi-GBM AND AstroSAT (Fermi-Guest Investigator, \$60k, 2017-2018)

### Co-investigator.....

- Improving the Targeted Sub-threshold Search of GBM Data for Electromagnetic Counterparts to Gravitational Wave Detection (Fermi-Guest Investigator, PI: Daniel Kocevski, 2018-2019)
- A Blind Search for Untriggered Short GRBs in the Continuous Data of Fermi GBM (Fermi-Guest Investigator, PI: Michael S. Briggs, 2017-2018)
- Next Generation Time-dependent Spectral Models of GRBs (NASA-Astrophysics Theory Program, PI: Péter Mészáros, 2012-2015)

## Teaching experience

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- Astronomy 1002 lecturer (George Washington University)
- Classical physics lab assistant (University College Cork, Ireland)
- Electronics lab assistant (Eötvös U., Budapest, Hungary)
- Basic calculus and probability theory, Linear algebra (National Defense U., Budapest, Hungary)

## Professional activity

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- **Panelist** for:
  - NSF (2017)
  - NASA/Fermi guest investigator program (2018, 2020)
  - NASA/Swift guest investigator program (2020)
  - NASA/NICER guest investigator program (2021)
- **Referee** for:
  - The Astrophysical Journal
  - Monthly Notices of the Royal Astronomical Society
  - Astronomy & Astrophysics
  - Science
  - Nature Astronomy,
  - Space Science Reviews
  - Galaxies
- **Supervisor** for:
  - **Georgia Michelman** (Yale University), NASA-MSFC Summer internship (2019)
  - **Nohely Miranda-Colón** (University of Puerto Rico), NASA-MSFC Summer internship (2018)
  - **József Kóbori** (Eötvös University), MSc. thesis (2011)

## Computer skills

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- **Programming:** Python, IDL, Linux shell scripting, R, Mathematica, gnuplot
- **Astro-specific software:** rmfit, heasoft, AIPS, HEALPix

## Languages

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- **Hungarian:** native
- **English, Romanian:** fluent
- **German:** basic

## References

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- **Péter Mészáros**  
Eberly Chair of Astronomy & Astrophysics, Professor of Physics | Pennsylvania State University  
525 Davey Lab, University Park, PA 16802  
+1-814-865-0418 | [<nnp@psu.edu>](mailto:nnp@psu.edu)
- **Szabolcs Márka**  
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1009 Pupin Hall, Mail Code: 5229, New York, NY 10027  
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- **Alessandra Corsi**  
Associate Professor | Texas Tech University  
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- **Michael S. Briggs**  
Principal Research Scientist | University of Alabama in Huntsville  
Cramer Hall 2002 | 301 Sparkman Drive | Huntsville, AL 35899  
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- **Valerie Connaughton**  
Program Scientist | SMD - Astrophysics Division  
NASA HQ, 300 E St SW | Washington, DC 20546  
+1 202-358-1763 | [<valerie.connaughton@nasa.gov>](mailto:valerie.connaughton@nasa.gov)

## Talks, Seminars

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- INTEGRAL looks AHEAD to Multimessenger astronomy, February 11-15, 2019, Geneva  
*Synergies between gamma-ray observatories for multi-messenger astronomy (invited talk)*
- Vision for the Next Decades in Astrophysics with Gravitational Waves and other Cosmic Messengers, November 30-December 1, 2018, Columbia University, New York  
*Role of Gamma-ray Bursts in the Future of Multimessenger Astrophysics (invited talk)*
- Monitoring the non-thermal Universe, 18-21 September 2018 Cochem (Mosel), Germany  
*Fermi Gamma-ray Burst Monitor Observations of Gravitational Wave Counterparts (talk)*
- Physics and Astrophysics at the Extreme, February 5-7, 2018, State College, PA

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

## List of publications

([arXiv links point to papers](#))

65. *Rapid spectral variability of a giant flare from a magnetar in NGC 253*  
Roberts, O. J. , [Veres P.](#), et al..  
Nature, **589**, 207, (2021) (arXiv:2101.05146)
64. *Observation of inverse Compton emission from a long gamma-ray burst*  
MAGIC collab., [P. Veres](#), et al..  
Nature, **575**, 459, (2019) (arXiv:)
63. *Search for advanced LIGO single interferometer compact binary coalescence signals in coincidence with Gamma-ray events in Fermi-GBM*  
Stachie, C. . . . [Veres P.](#), et al..  
CQG, **37**, 17, (2020) (arXiv:2001.01462)

62. *Description of Atypical Bursts Seen Slightly Off-axis*  
Fraija, N.; De Colle, F.; Veres P.; et al. *ApJ*, **896**, 25, (2020) (arXiv:1906.00502)
61. *A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs*  
Hamburg, R. . . . Veres P.; et al.  
*ApJ*, **893**, 100, (2020) (arXiv:2001.00923)
60. *The Fourth Fermi-GBM Gamma-Ray Burst Catalog: A Decade of Data*  
von Kienlin, A., . . . , Veres P., et al.  
*ApJ*, **893**, 46, (2020) (arXiv:2002.11460)
59. *Observation of inverse Compton emission from a long gamma-ray burst*  
MAGIC collab., P. Veres, et al..  
*Nature*, **575**, 459, (2019) (arXiv:)
58. *Evaluation of Automated Fermi GBM Localizations of Gamma-ray Bursts*  
Goldstein, Adam; Fletcher, Corinne; Veres, Péter, et al.  
*ApJ*, **895**, 40, (2020) (arXiv:1909.03006)
57. *Fermi and Swift Observations of GRB 190114C: Tracing the Evolution of High-Energy Emission from Prompt to Afterglow*  
Ajello, M., . . . Veres P. (corresponding author), et al.  
*ApJ accepted*, (2019) (arXiv:1909.10605)
56. *Fermi GBM follow-up of LIGO-Virgo binary black hole mergers – detection prospects*  
Veres P., Dal Canton, T. et al.  
*ApJ*, **882**, 53, (2019) (arXiv:1905.08755)
55. *A Decade of Gamma-Ray Bursts Observed by Fermi-LAT: The Second GRB Catalog*  
Ajello, M., . . . Veres P., et al.  
*ApJ*, **878**, 52, (2019) (arXiv:1906.11403)
54. *Reverse Shock Emission Revealed in Early Photometry in the Candidate Short GRB 180418A*  
Becerra, Rosa L., . . . , Veres, Péter, et al.  
*ApJ*, **881**, 12, (2019) (arXiv:1904.05987)
53. *The rare extended radio-loud narrow-line Seyfert 1 galaxy SDSS J1030+5516 at high resolution*  
Gabányi, K. É., Frey,S.; Veres P., Moór, A.  
*Ap&SS*, **364**, 68, (2019) (arXiv:1904.07540)
52. *Signatures from a Quasi-spherical Outflow and an Off-axis Top-hat Jet Launched in a Merger of Compact Objects: An Analytical Approach*  
Fraija, N.,. . . Veres P.,. et al.,  
*ApJ*, **884**, 71, (2019) (arXiv:1904.07732)
51. *Fermi GBM GRBs with characteristics similar to GRB 170817A*  
von Kienlin, A., Veres P.,. et al.,  
*ApJ*, **876**, 89, (2019) (arXiv:1901.06158)

50. *A Fermi Gamma-ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-Wave Candidates in Advanced LIGO's First Observing Run*  
Burns, E., . . . Veres P., et al.  
ApJ, **871**, 90, (2019) (arXiv:1810.02764)
49. *Fermi GBM Observations of GRB 150101B: A Second Nearby Event with a Short Hard Spike and a Soft Tail*  
Burns, E., Veres P., et al.  
ApJL, **863**, 34, (2018) (arXiv:1807.02866)
48. *Analysis of Sub-threshold Short Gamma-ray Bursts in Fermi GBM Data*  
Kocevski, D., . . . P. Veres et al.  
ApJ, **862**, 152, (2018) (arXiv:1806.02378)
47. *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)
46. *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)
45. *Multi-messenger Observations of a Binary Neutron Star Merger*  
Abbott, B.P.; . . . P. Veres, et al.  
ApJL, **848**, 12, (2017) (arXiv:1710.05833)
44. *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)
43. *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)
42. *Fermi Observations of the LIGO Event GW170104*  
Goldstein, A.; Veres P., et al.  
ApJL, **846**, 5, (2017) (arXiv:1706.00199)
41. *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)
40. *Theoretical Description Of GRB 160625B with Wind-to-ISM Transition and Implications for a Magnetized Outflow*  
Fraija, N.; Veres P., et al.  
ApJ, **848**, 15, (2017) (arXiv:1705.09311)

39. *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)
38. *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)
37. *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)
36. *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)
35. *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)
34. *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)
33. *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)
32. *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)
31. *Fermi GBM Observations of LIGO Gravitational Wave event GW150914*  
V. Connaughton, ... , P. Veres, et al.  
ApJ, **826**, 6, (2016) (arXiv:1602.03920)
30. *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)
29. *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)

28. *Modeling the early multiwavelength emission in GRB130427A*  
Fraija, Nissim; Lee, William H.; Veres, Péter  
ApJ, **818**, 190, (2016), (arXiv:1601.01264)
27. *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)
26. *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)
25. *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)
24. *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)
23. *Constraints on Very High Energy Emission from GRB 130427A*  
E. Aliu, . . . , P. Veres (corresponding author) et al.  
ApJL, **795**, 3, (2014), (arXiv:1410.5367)
22. *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)
21. *Prospects for GeV-TeV detection of short gamma-ray bursts with extended emission*  
P. Veres, P. Mészáros,  
ApJ, **787**, 168, (2014), (arXiv:1312.0590)
20. *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)
19. *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)
18. *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)
17. *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)
16. *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  
ApJL, **761**, L18, (2012), (arXiv:1208.1790)
  15. *Searching for galactic sources in the Swift GRB catalog: Statistical analyses of the angular distributions of FREDs*  
Tello J.C., Castro-Tirado A.J., Gorosabel J., Perez-Ramirez D., Guziy S., P. Veres, Bagoly Z.  
A&A Letters, **548**, 7, (2012), (arXiv:1210.3699)
  14. *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)
  13. *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)
  12. *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)
  11. *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)
  10. *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)
  9. *Investigating gamma-ray burst data reduction techniques with Swift's instruments*  
P. Veres  
Advances in Space Research (2011), **47**, 1356
  8. *Investigating gamma- and X-ray properties of GRBs using multivariate statistics*  
Balázs, L.G., P. Veres  
Advances in Space Research (2011), **47**, 1404
  7. *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)
  6. *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)

5. *Gamma-ray bursts: connecting the prompt emission with the afterglow*  
P. Veres, Bagoly, Z.  
Baltic Astronomy, **18**, 284 (2009)
4. *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)
3. *Classification of Swift's gamma-ray bursts*  
I. Horváth, L. G. Balázs, Z. Bagoly, P. Veres  
Astronomy and Astrophysics, **489**, L1 (2008)
2. *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)
1. *Analysis of the BATSE continuous MER data*  
P. Veres, Horváth I., Balázs L.: Il Nuovo Cimento C **28**, 355, (2005) (arXiv:0510323)