

Binbin Zhang

Ph.D., Professor

School of Astronomy and Space Science, Nanjing University, Nanjing 210093, China

Professional Experience

- 2022–present **Professor**, *Nanjing University*, China
2017–2022 **Associate Professor**, *Nanjing University*, China
2019–2020 **Adjunct Faculty**, *University of Nevada Las Vegas*, USA
2016–2017 **Juan de la Cierva Fellow**, *Instituto de Astrofísica de Andalucía - CSIC*, Spain
2013–2016 **Postdoctoral Research Assistant II, S3**, *The University of Alabama in Huntsville, The Center for Space Plasma and Aeronomic Research(CSPAR)*, US
2011–2013 **Postdoctoral Research Fellow**, *Penn State University, Department of Astronomy and Astrophysics*, US

Education

- 2007–2011 **Ph.D in Astrophysics**, *University of Nevada Las Vegas*, US
Supervisor: Dr. Bing Zhang

Research and Achievements

Research: • Data and observation oriented research on gamma-ray bursts;
interest: • Gravitational waves and related astrophysics;
• Fast radio bursts.

Publications: 138 papers in refereed journals (mostly ApJ and ApJL), including 4 in Nature, 2 in Science, 3 in Nature Astronomy, 1 in Nature Communications.

Citations: 10200 (as of Nov 2022.)

H-index: 47

Publications

First-author, corresponding author & student-mentored papers:

37. **Zhang, B.-B.**, Liu, Z.-K., Peng, Z.-K., Li, Y., Lü, H.-J., Yang, J., Yang, Y.-S., Yang, Y.-H., Meng, Y.-Z., Zou, J.-H., Ye, H.-Y., Wang, X.-G., Mao, J.-R., Zhao, X.-H., Bai, J.-M., Castro-Tirado, A. J., Hu, Y.-D., Dai, Z.-G., Liang, E.-W., Zhang, B., A peculiarly short-duration gamma-ray burst from massive star core collapse, 2021, *Nature Astronomy*, 5, 911, 07/2021, 10.1038/s41550-021-01395-z
36. **Zhang, B.-B.**, Zhang, B., Sun, H., Lei, W.-H., Gao, H., Li, Y., Shao, L., Zhao, Y., Hu, Y.-D., Lü, H.-J., Wu, X.-F., Fan, X.-L., Wang, G., Castro-Tirado, A. J., Zhang, S., Yu, B.-Y., Cao, Y.-Y.,

Publications ordered by importance & date. A full list can be found at https://ui.adsabs.harvard.edu/public-libraries/41VS-8y-S4K-w9b4pN_nug

- & Liang, E.-W. , A peculiar low-luminosity short gamma-ray burst from a double neutron star merger progenitor, 2018, *Nature Communications*, 9, 447 1/2018 10.1038/s41467-018-02847-3
35. **Zhang, B.-B.**, Zhang, B., Castro-Tirado, et al. , Transition from fireball to Poynting-flux-dominated outflow in the three-episode GRB 160625B, 2018, *Nature Astronomy*, 2, 69 11/2018 10.1038/s41550-017-0309-8
 34. **Zhang, B.-B.**, & Zhang, B. , Repeating FRB 121102: Eight-year Fermi-LAT Upper Limits and Implications, 2017, *The Astrophysical Journal*, 843, L13 7/2017 10.3847/2041-8213/aa7633
 33. **Zhang, B.-B.**, Uhm, Z. L., Connaughton, V., Briggs, M. S., & Zhang, B. , Synchrotron Origin of the Typical GRB Band Function: A Case Study of GRB 130606B, 2016, *The Astrophysical Journal*, 816, 72 1/2016 10.3847/0004-637X/816/2/72
 32. **Zhang, B.-B.**, Zhang, B., & Castro-Tirado, A. J. , Central Engine Memory of Gamma-Ray Bursts and Soft Gamma-Ray Repeaters, 2016, *The Astrophysical Journal*, 820, L32 4/2016 10.3847/2041-8205/820/2/L32
 31. **Zhang, B.-B.**, Zhang, B., Murase, K., Connaughton, V., & Briggs, M. S. , How Long does a Burst Burst?, 2014, *The Astrophysical Journal*, 787, 66 5/2014 10.1088/0004-637X/787/1/66
 30. **Zhang, B.-B.**, van Eerten, H., Burrows, D. N., Ryan, G. S., Evans, P. A., Racusin, J. L., Troja, E., & MacFadyen, A. , An Analysis of Chandra Deep Follow-up Gamma-Ray Bursts: Implications for Off-axis Jets, 2015, *The Astrophysical Journal*, 806, 15 6/2015 10.1088/0004-637X/806/1/15
 29. **Zhang, B.-B.**, Fan, Y.-Z., Shen, R.-F., Xu, D., Zhang, F.-W., Wei, D.-M., Burrows, D. N., Zhang, B., & Gehrels, N. , GRB 120422A: A Low-luminosity Gamma-Ray Burst Driven by a Central Engine, 2012, *The Astrophysical Journal*, 756, 190 9/2012 10.1088/0004-637X/756/2/190
 28. **Zhang, B.-B.**, Burrows, D. N., Zhang, B., Mészáros, P., Wang, X.-Y., Stratta, G., D'Elia, V., Frederiks, D., Golenetskii, S., Cummings, J. R., Norris, J. P., Falcone, A. D., Barthelmy, S. D., & Gehrels, N. , Unusual Central Engine Activity in the Double Burst GRB 110709B, 2012, *The Astrophysical Journal*, 748, 132 4/2012 10.1088/0004-637X/748/2/132
 27. **Zhang, B.-B.**, Zhang, B., Liang, E.-W., Fan, Y.-Z., Wu, X.-F., Pe'er, A., Maxham, A., Gao, H., & Dong, Y.-M. , A Comprehensive Analysis of Fermi Gamma-ray Burst Data. I. Spectral Components and the Possible Physical Origins of LAT/GBM GRBs, 2011, *The Astrophysical Journal*, 730, 141 4/2011 10.1088/0004-637X/730/2/141
 26. **Zhang, B.-B.**, Zhang, B., Liang, E.-W., & Wang, X.-Y. , Curvature Effect of a Non-Power-Law Spectrum and Spectral Evolution of GRB X-Ray Tails, 2009, *The Astrophysical Journal*, 690, L10 1/2009 10.1088/0004-637X/690/1/L10
 25. **Zhang, B.-B.**, Liang, E.-W., & Zhang, B. , A Comprehensive Analysis of Swift XRT Data. I. Apparent Spectral Evolution of Gamma-Ray Burst X-Ray Tails, 2007, *The Astrophysical Journal*, 666, 1002 9/2007 10.1086/519548
 24. Zou, J.-H., **Zhang, B.-B.**, Zhang, G.-Q., Yang, Y.-H., Shao, L., Wang, F.-Y., Periodicity Search on X-Ray Bursts of SGR J1935+2154 Using 8.5 yr of Fermi/GBM Data, 2021, *The Astrophysical Journal*, 923, L30, 12/2021, 10.3847/2041-8213/ac3759

23. Wang, X. I., Zheng, X., Xiao, S., Yang, J., Liu, Z.-K., Yang, Y.-H., Zou, J.-H., **Zhang, B.-B.**, Zeng, M., Xiong, S.-L., Feng, H., Song, X.-Y., Wen, J., Xu, D., Chen, G.-Y., Ni, Y., Zhang, Z.-J., Wu, Y.-X., Cai, C., Cang, J., Deng, Y.-W., Gao, H., Kong, D.-F., Huang, Y., et al., GRB 210121A: A Typical Fireball Burst Detected by Two Small Missions, 2021, *The Astrophysical Journal*, 922, 237, 12/2021, 10.3847/1538-4357/ac29bd
22. Zou, Z.-C., **Zhang, B.-B.**, Huang, Y.-F., Zhao, X.-H., Gamma-Ray Burst in a Binary System, 2021, *The Astrophysical Journal*, 921, 2, 11/2021, 10.3847/1538-4357/ac1b2d
21. Zhang, Z. J., **Zhang, B.-B.**, Meng, Y.-Z., A Comptonized Fireball Bubble: Physical Origin of Magnetar Giant Flares, 2021, arXiv e-prints, arXiv:2109.14252, 09/2021
20. Peng, Z.-K., Liu, Z.-K., **Zhang, B.-B.**, GRB 200826A: Collapse of a Thorne-Zytkow-like Object as the Aftermath of a WD-NS Coalescence, 2021, arXiv e-prints, arXiv:2109.06041, 09/2021,
19. Yang, Y.-H., **Zhang, B.-B.**, Lin, L., Zhang, B., Zhang, G.-Q., Yang, Y.-S., Tu, Z.-L., Zou, J.-H., Ye, H.-Y., Wang, F.-Y., Dai, Z.-G., Bursts before Burst: A Comparative Study on FRB 200428-associated and FRB-absent X-Ray Bursts from SGR J1935+2154, 2021, *The Astrophysical Journal*, 906, L12, 01/2021, 10.3847/2041-8213/abd02a
18. Yang, J., Chand, V., **Zhang, B.-B.**, Yang, Y.-H., Zou, J.-H., Yang, Y.-S., Zhao, X.-H., Shao, L., Xiong, S.-L., Luo, Q., Li, X.-B., Xiao, S., Li, C.-K., Liu, C.-Z., Joshi, J. C., Sharma, V., Chakraborty, M., Li, Y., Zhang, B., GRB 200415A: A Short Gamma-Ray Burst from a Magnetar Giant Flare?, 2020, *The Astrophysical Journal*, 899, 106, 08/2020, 10.3847/1538-4357/aba745
17. Yang, Y.-S., Zhong, S.-Q., **Zhang, B.-B.**, Wu, S., Zhang, B., Yang, Y.-H., Cao, Z., Gao, H., Zou, J.-H., Wang, J.-S., Lü, H.-J., Cang, J.-R., Dai, Z.-G., Physical Implications of the Subthreshold GRB GBM-190816 and Its Associated Subthreshold Gravitational-wave Event, 2020, *The Astrophysical Journal*, 899, 60, 08/2020, 10.3847/1538-4357/ab9ff5
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15. Wang, D.-Z., Zhao, X.-H., Zhang, Z., **Zhang, B.-B.**, Peng, Z.-Y., A Comprehensive Consistency Check between Synchrotron radiation and the Observed Gamma-ray Burst Spectra, 2022, *ApJ* in press, arXiv e-prints, arXiv:2107.09859, 07/2021,
14. Wang, J.-S., Peng, Z.-K., Zou, J.-H., **Zhang, B.-B.**, Zhang, B., Stringent Search for Precursor Emission in Short GRBs from Fermi/GBM Data and Physical Implications, 2020, *The Astrophysical Journal*, 902, L42, 10/2020, 10.3847/2041-8213/abfbf8
13. Yang, Y.-H., **Zhang, B.-B.**, & Zhang, B. , Second Repeating FRB 180814.J0422+73: Ten-year Fermi-LAT Upper Limits and Implications, 2019, *The Astrophysical Journal*, 875, L19 4/2019 10.3847/2041-8213/ab13af
12. Xiao, D., **Zhang, B.-B.**, & Dai, Z.-G. , On the Properties of a Newborn Magnetar Powering the X-Ray Transient CDF-S XT2, 2019, *The Astrophysical Journal*, 879, L7 7/2019 10.3847/2041-8213/ab2980

11. Lu, H.-J., Yuan, Y., Lan, L., **Zhang, B.-B.**, Zou, J.-H., Peng, Z.-K., Shen, J., Liang, Y.-F., Wang, X.-G., Liang, E.-W., Evidence for Gravitational-wave-dominated Emission in the Central Engine of Short GRB 200219A, 2020, *The Astrophysical Journal*, 898, L6, 07/2020, 10.3847/2041-8213/aba1ed
10. Huang, Y., Luo, Q., **Zhang, B.-B.**, Xiong, S., Ultra-long gamma-ray bursts and ultra-soft gamma-ray bursts, 2020, *Scientia Sinica Physica, Mechanica amp; Astronomica*, 50, 129504, 12/2020, 10.1360/SSPMA-2019-0415
9. Wei, J.-J., **Zhang, B.-B.**, Shao, L., et al., Multimessenger tests of Einstein's weak equivalence principle and Lorentz invariance with a high-energy neutrino from a flaring blazar, 2019, *Journal of High Energy Astrophysics*, 22, 1 6/2019 10.1016/j.jheap.2019.01.002
8. Wei, J.-J., **Zhang, B.-B.**, Wu, X.-F., Gao, H., Mészáros, P., Zhang, B., Dai, Z.-G., Zhang, S.-N., & Zhu, Z.-H. , Multimessenger tests of the weak equivalence principle from GW170817 and its electromagnetic counterparts, 2017, *Journal of Cosmology and Astroparticle Physics*, 11, 035 11/2017 10.1088/1475-7516/2017/11/035
7. Wei, J.-J., **Zhang, B.-B.**, Shao, L., Wu, X.-F., & Mészáros, P. , A New Test of Lorentz Invariance Violation: The Spectral Lag Transition of GRB 160625B, 2017, *The Astrophysical Journal*, 834, L13 1/2017 10.3847/2041-8213/834/2/L13
6. Shao, L., **Zhang, B.-B.**, Wang, F.-R., Wu, X.-F., Cheng, Y.-H., Zhang, X., Yu, B.-Y., Xi, B.-J., Wang, X., Feng, H.-X., Zhang, M., & Xu, D. , A New Measurement of the Spectral Lag of Gamma-Ray Bursts and its Implications for Spectral Evolution Behaviors, 2017, *The Astrophysical Journal*, 844, 126 8/2017 10.3847/1538-4357/aa7d01
5. Chand, V., Banerjee, A., Gupta, R., Dimple, Pal, P. S., Joshi, J. C., **Zhang, B.-B.**, Basak, R., Tam, P. H. T., Sharma, V., Pandey, S. B., Kumar, A., Yang, Y.-S., Peculiar Prompt Emission and Afterglow in the H.E.S.S.-detected GRB 190829A, 2020, *The Astrophysical Journal*, 898, 42, 07/2020, 10.3847/1538-4357/ab9606
4. Chand, V., Joshi, J. C., Gupta, R., Yang, Y.-H., Dimple, Sharma, V., Yang, J., Chakraborty, M., Zou, J.-H., Shao, L., Yang, Y.-S., **Zhang, B.-B.**, Pandey, S. B., Banerjee, A., Moneer, E., Ep - Liso correlation and implications, 2021, *Research in Astronomy and Astrophysics*, 21, 236, 11/2021, 10.1088/1674-4527/21/9/236
3. Pandey, S. B., Hu, Y., Castro-Tirado, A. J., Pozanenko, A. S., Sánchez-Ramírez, R., Gorosabel, J., Guziy, S., Jelinek, M., Tello, J. C., Jeong, S., Oates, S. R., **Zhang, B.-B.**, Mazaeva, E. D., Volnova, A. A., Minaev, P. Y., van Eerten, H. J., Caballero-García, M. D., Pérez-Ramírez, D., Bremer, M., Winters, J.-M., Park, I. H., Guelbenzu, A. N., Klose, S., Moskvitin, A., Sokolov, V. V., Sonbas, E., Ayala, A., Cepa, J., Butler, N., Troja, E., Chernenko, A. M., Molkov, S. V., Volvach, A. E., Inasaridze, R. Y., Egamberdiyev, S. A., Burkxonov, O., Reva, I. V., Polyakov, K. A., Matkin, A. A., Ivanov, A. L., Molotov, I., Guver, T, et al. , A multiwavelength analysis of a collection of short-duration GRBs observed between 2012 and 2015, 2019, *Monthly Notices of the Royal Astronomical Society*, 485, 5294 6/2019 10.1093/mnras/stz530
2. Hou, S.-J., **Zhang, B.-B.**, Meng, Y.-Z., Wu, X.-F., Liang, E.-W., Lü, H.-J., Liu, T., Liang, Y.-F., Lin, L., Lu, R.-j., Huang, J.-S., & Zhang, B. , Multicolor Blackbody Emission in GRB 081221, 2018, *The Astrophysical Journal*, 866, 13 10/2018 10.3847/1538-4357/aadc07

1. Wen, J. et al. , GRID: a Student Project to Monitor the Transient Gamma-Ray Sky in the Multi-Messenger Astronomy Era, 2019, *Experimental Astronomy*, 48, 77-79, 08/2019, 10.1007/s10686-019-09636-w

Other Co-Author Papers

101. Lin, L., Zhang, C. F., Wang, P., Gao, H., Guan, X., Han, J. L., Jiang, J. C., Jiang, P., Lee, K. J., Li, D., Men, Y. P., Miao, C. C., Niu, C. H., Niu, J. R., Sun, C., Wang, B. J., Wang, Z. L., Xu, H., Xu, J. L., Xu, J. W., Yang, Y. H., Yang, Y. P., Yu, W., Zhang, B., **Zhang, B.-B.**, Zhou, D. J., Zhu, W. W., Castro-Tirado, A. J., Dai, Z. G., Ge, M. Y., Hu, Y. D., Li, C. K., Li, Y., Li, Z., Liang, E. W., Jia, S. M., Querel, R., Shao, L., Wang, F. Y., Wang, X. G., Wu, X. F., Xiong, S. L., Xu, R. X., Yang, Y.-S., Zhang, G. Q., Zhang, S. N., Zheng, T. C., Zou, J.-H., No pulsed radio emission during a bursting phase of a Galactic magnetar, 2020, *Nature*, 587, 63, 11/2020, 10.1038/s41586-020-2839-y
100. Xue, Y. Q., Zheng, X. C., Li, Y., Brandt, W. N., Zhang, B., Luo, B., **Zhang, B.-B.**, Bauer, F. E., Sun, H., Lehmer, B. D., Wu, X.-F., Yang, G., Kong, X., Li, J. Y., Sun, M. Y., Wang, J.-X., & Vito, F. , A magnetar-powered X-ray transient as the aftermath of a binary neutron-star merger, 2019, *Nature*, 568, 198 4/2019 10.1038/s41586-019-1079-5
99. Maselli, A., Melandri, A., Nava, L., Mundell, C. G., Kawai, N., Campana, S., Covino, S., Cummings, J. R., Cusumano, G., Evans, P. A., Ghirlanda, G., Ghisellini, G., Guidorzi, C., Kobayashi, S., Kuin, P., La Parola, V., Mangano, V., Oates, S., Sakamoto, T., Serino, M., Virgili, F., **Zhang, B.-B.**, Barthelmy, S., Beardmore, A., Bernardini, M. G., Bersier, D., Burrows, D., Calderone, G., Capalbi, M., Chiang, J., D'Avanzo, P., D'Elia, V., De Pasquale, M., Fugazza, D., Gehrels, N., Gomboc, A., Harrison, R., Hanayama, H., Japelj, J., Kennea, J., Kopac, D., Kouveliotou, C., Kuroda, D., Levan, A., Malesani, D., Marshall, F., Nousek, J., O'Brien, P., Osborne, J. P., Paganì, C., Page, K. L., Page, M., Perri, M., Pritchard, T., Romano, P., Saito, Y., Sbarufatti, B., Salvaterra, R., Steele, I., Tanvir, N., Vianello, G., Weigand, B., Wiersema, K., Yatsu, Y., Yoshii, T., & Tagliaferri, G. , GRB 130427A: A Nearby Ordinary Monster, 2014, *Science*, 343, 48 1/2014 10.1126/science.1242279
98. Castro-Tirado, A. J., et al., Very-high-frequency oscillations in the main peak of a magnetar giant flare, 2021, *Nature*, 600, 621, 12/2021, 10.1038/s41586-021-04101-1
97. The LHAASO Collaboration, Cao, Z., et al., Peta-electron volt gamma-ray emission from the Crab Nebula, 2021, *Science*, 373, 425, 07/2021, 10.1126/science.abg5137
96. The LHAASO Collaboration, Cao, Z., et al., Ultrahigh-energy photons up to 1.4 petaelectronvolts from 12 -ray Galactic sources, 2021, *Nature*, 594, 33, 06/2021, 10.1038/s41586-021-03498-z
95. Jiang, L., Wang, S., Zhang, B., Kashikawa, N., Ho, L. C., Cai, Z., Egami, E., Walth, G., Yang, Y.-S., **Zhang, B.-B.**, Zhao, H.-B., A possible bright ultraviolet flash from a galaxy at redshift z 11, 2021, *Nature Astronomy*, 5, 262, 01/2021, 10.1038/s41550-020-01266-z
94. Veres, P., **Zhang, B.-B.**, & Mészáros, P. , The Extremely High Peak Energy of GRB 110721A in the Context of a Dissipative Photosphere Synchrotron Emission Model, 2012, *The Astrophysical Journal*, 761, L18 12/2012 10.1088/2041-8205/761/2/L18

93. Zhao, Y., **Zhang, B.-B.**, Xiong, S.-L., Long, X., Zhang, Q., Song, L.-M., Sun, J.-C., Wang, Y.-H., Li, H.-C., Bu, Q.-C., Feng, M.-Z., Li, Z.-H., Wen, X., Wu, B.-B., Zhang, L.-Y., Zhang, Y.-J., Zhang, S.-N., & Shao, J.-X. , A low-latency pipeline for GRB light curve and spectrum using Fermi/GBM near real-time data, 2018, *Research in Astronomy and Astrophysics*, 18, 057 5/2018 10.1088/1674-4527/18/5/57
92. Zhao, L., **Zhang, B.-B.**, Gao, H., Lan, L., Lü, H., & Zhang, B. , The shallow decay segment of GRB X-ray afterglow revisited, 2019, *The Astrophysical Journal*, 893,97, 09/2019 10.3847/1538-4357/ab38c4
91. Veres, P., **Zhang, B.-B.**, & Mészáros, P. , Magnetically and Baryonically Dominated Photospheric Gamma-Ray Burst Model Fits to Fermi-LAT Observations, 2013, *The Astrophysical Journal*, 764, 94 2/2013 10.1088/0004-637X/764/1/94
90. Fan, Y.-Z., **Zhang, B.-B.**, Xu, D., Liang, E.-W., & Zhang, B. , XRF 100316D/SN 2010bh: Clue to the Diverse Origin of Nearby Supernova-associated Gamma-ray Bursts, 2011, *The Astrophysical Journal*, 726, 32 1/2011 10.1088/0004-637X/726/1/32
89. He, H.-N., **Zhang, B.-B.**, Wang, X.-Y., Li, Z., & Mészáros, P. , Origin of the GeV Emission during the X-Ray Flaring Activity in GRB 100728A, 2012, *The Astrophysical Journal*, 753, 178 7/2012 10.1088/0004-637X/753/2/178
88. Gao, H., **Zhang, B.-B.**, & Zhang, B. , Stepwise Filter Correlation Method and Evidence of Superposed Variability Components in Gamma-Ray Burst Prompt Emission Light Curves, 2012, *The Astrophysical Journal*, 748, 134 4/2012 10.1088/0004-637X/748/2/134
87. Maxham, A., **Zhang, B.-B.**, & Zhang, B. , Is GeV emission from Gamma-Ray Bursts of external shock origin?, 2011, *Monthly Notices of the Royal Astronomical Society*, 415, 77 7/2011 10.1111/j.1365-2966.2011.18648.x
86. Zhang, B., **Zhang, B.-B.**, Virgili, F. J., Liang, E.-W., Kann, D. A., Wu, X.-F., Proga, D., Lv, H.-J., Toma, K., Mészáros, P., Burrows, D. N., Roming, P. W. A., & Gehrels, N. , Discerning the Physical Origins of Cosmological Gamma-ray Bursts Based on Multiple Observational Criteria: The Cases of $z = 6.7$ GRB 080913, $z = 8.2$ GRB 090423, and Some Short/Hard GRBs, 2009, *The Astrophysical Journal*, 703, 1696 10/2009 10.1088/0004-637X/703/2/1696
85. Zhang, B., **Zhang, B.-B.**, Liang, E.-W., Gehrels, N., Burrows, D. N., & Mészáros, P. , Making a Short Gamma-Ray Burst from a Long One: Implications for the Nature of GRB 060614, 2007, *The Astrophysical Journal*, 655, L25 1/2007 10.1086/511781
84. Liang, E.-W., **Zhang, B.-B.**, & Zhang, B. , A Comprehensive Analysis of Swift XRT Data. II. Diverse Physical Origins of the Shallow Decay Segment, 2007, *The Astrophysical Journal*, 670, 565 11/2007 10.1086/521870
83. Liang, E.-W., **Zhang, B.-B.**, Stamatikos, M., Zhang, B., Norris, J., Gehrels, N., Zhang, J., & Dai, Z. G. , Temporal Profiles and Spectral Lags of XRF 060218, 2006, *The Astrophysical Journal*, 653, L81 12/2006 10.1086/510516
82. Gupta, R., et al., Probing into emission mechanisms of GRB 190530A using time-resolved spectra and polarization studies: Synchrotron Origin?, 2022, *Monthly Notices of the Royal Astronomical Society*, 01/2022, 10.1093/mnras/stac015

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80. Gao, H., Yang, D., Wen, J., Zheng, X., Zeng, M., Cang, J., Zeng, W., Pan, X., Zhou, Q., Liu, Y., Feng, H., **Zhang, B.-B.**, Zeng, Z., Tian, Y., GRID Collaboration, On-ground calibrations of the GRID-02 gamma-ray detector, 2021, Experimental Astronomy, 12/2021, 10.1007/s10686-021-09819-4
79. Xu, H., et al., A fast radio burst source at a complex magnetised site in a barred galaxy, 2021, Nature Submitted arXiv e-prints, arXiv:2111.11764, 11/2021,
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77. Cao, Z., et al., Discovery of the Ultrahigh-energy Gamma-Ray Source LHAASO J2108+5157, 2021, The Astrophysical Journal, 919, L22, 10/2021, 10.3847/2041-8213/ac2579
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75. Gupta, R., et al., GRB 140102A: insight into prompt spectral evolution and early optical afterglow emission, 2021, Monthly Notices of the Royal Astronomical Society, 505, 4086, 08/2021, 10.1093/mnras/stab1573
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72. Aharonian, F. et al., Extended Very-High-Energy Gamma-Ray Emission Surrounding PSR J 0622 +3749 Observed by LHAASO-KM2A, 2021, Physical Review Letters, 126, 241103, 06/2021, 10.1103/PhysRevLett.126.241103
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