

Rupal Basak

Lista publikacji

z dnia 31 października 2015

Publikacje w czasopismach

1. Basak R., Rao A. R., 2015, **Discovery of Smoothly Evolving Blackbodies in the Early Afterglow of GRB 090618 : Evidence for a Spine-Sheath Jet?**, *The Astrophysical Journal*, Volume 812, Issue 2, article id. 156, 11 pages
2. Zdziarski A. A., Malyshev D., de Ona Wilhelmi E., Pedalletti G., Yang R., Chernyakova M., Lopez-Caniego M., Mikolajewska J., Basak R., 2015, **The high-energy gamma-ray detection of G73.9+0.9, a supernova remnant interacting with a molecular cloud**, *Monthly Notices of the Royal Astronomical Society* (Accepted), Volume 455, Issue 2, p.1451-1458
3. Basak R., Rao A. R., 2015, **Thermal Emissions Spanning the Prompt and the Afterglow Phases of the Ultra-long GRB 130925A**, *The Astrophysical Journal*, Volume 807, Issue 1, article id. 34, 6 pages
4. Basak R., Rao A. R., 2014, **Time-resolved spectral study of Fermi gamma-ray bursts having single pulses**, *Monthly Notices of the Royal Astronomical Society*, Volume 442, Issue 1, page 419-427
5. Rao A. R., Basak R., Bhattacharya J., Chandra S., Maheshwari N., Choudhury M., Misra R., 2014, **Time-resolved spectral analysis of prompt emission from long gamma-ray bursts with GeV emission**, *Research in Astronomy and Astrophysics*, Volume 14, Issue 1, article id. 35-46
6. Basak R., Rao A. R., 2013, **Pulse-wise Amati correlation in Fermi gamma-ray bursts**, *Monthly Notices of the Royal Astronomical Society*, Volume 436, Issue 4, page 3082-3088
7. Basak R., Rao A. R., 2015, **A Lingering Non-thermal Component in the Gamma-Ray Burst Prompt Emission: Predicting GeV Emission from the MeV Spectrum**, *The Astrophysical Journal*, Volume 775, Issue 1, article id. 31, 5 pages
8. Basak R., Rao A. R., 2015, **A New Method of Pulse-wise Spectral Analysis of Gamma-Ray Bursts**, *The Astrophysical Journal*, Volume 768, Issue 2, article id. 187, 15 pages
9. Basak R., Rao A. R., 2015, **Correlation between the Isotropic Energy and the Peak Energy at Zero Fluence for the Individual Pulses of Gamma-Ray Bursts: Toward a Universal Physical Correlation for the Prompt Emission**, *The Astrophysical Journal*, Volume 749, Issue 2, article id. 132, 5 pages
10. Basak R., Rao A. R., 2015, **Measuring the Pulse of GRB 090618: A Simultaneous Spectral and Timing Analysis of the Prompt Emission**, *The Astrophysical Journal*, Volume 745, Issue 1, article id. 76, 12 pages

Prace pokonferencyjne i doniesienia zjazdowe

1. Basak R., 2015, **Spectral analysis of the XMM-Newton data of GX 339-4 in the low/hard state during the outburst of 2013: Disk truncation radius and other issues**, Proceedings of the conference *The Extremes of Black Hole Accretion* held 8-10 June, 2015 in Madrid, Spain.
2. Basak R., Rao A. R., 2014, **GRB as luminosity indicator**, Proceedings of the *International Astronomical Union*, Volume 9, Issue S296, page 356-357

3. Basak R., Rao A. R., 2012, ***Pulse spectral evolution of GRBs: implication as standard candle***, Proceedings of the *Gamma-Ray Bursts 2012 Conference (GRB 2012)*, con. Id 152
4. Basak R., Rao A. R., 2012, ***A new pulse-wise correlation of GRB prompt emission: a possible cosmological probe***, Proceedings of the *39th COSPAR Scientific Assembly*, held on 14-22 July 2012, in Mysore, India. Abstract B0.6-11-12, p.106