

Pisani Giovanni Battista

Current position: Post-Doc Researcher

Institution: Sapienza University of Rome, Rome, Italy and ICRA Net, Pescara, Italy

Period covered: 1st April 2015 – Today

Former position: Ph.D. Student, Erasmus Mundus IRAP Ph.D. Program

Institution: Sapienza University of Rome, Rome, Italy and Université Sophia Antipolis, Nice, France

Period covered: 1st September 2011 – 26th November 2014

I Scientific Work

Gamma Ray Bursts (GRBs) are among the most puzzling astronomical objects since their first detection by the Vela satellites in the late 1960s. GRBs are flashes in gamma-rays observed in distant galaxies. They can last from milliseconds to several minutes with an isotropic energy released up to the order of one solar mass. This peculiarity makes them the most powerful events ever observed in the Universe. A variety of models have been developed to theoretically explain the observational properties of GRBs.

My PhD research project includes the reduction and analysis of GRBs data from different satellites, such as Batse, Swift or Fermi. I investigate GRBs observations within the fireshell model scenario, which predicts that GRBs originate from an optically thick e^+e^- plasma at thermal equilibrium created by vacuum polarization during the formation of a Black Hole.

My attention is focused on GRBs associated with Supernovae (SN). Since the first discovery of this association (GRB 980425 - SN1998wt), various mechanisms have been proposed to explain it. Recently Prof. Ruffini and his collaborators have proposed the Induced Gravitational Collapse (IGC) occurring in a particular class of binary systems as progenitors for the GRB-SN sources having a released isotropic energy above 10^{52} ergs. We refer to such phenomena as Binary-driven HyperNovae (BdHNe). Together with them we are further developing the BdHN paradigm and enlarging the sample of BdHN candidates. One of the most exciting outcomes of this work is the possibility to consider this class of BdHN events as a standard candle. If confirmed, this result could provide new independent challenges on the current cosmological model back to 600 millions years only after the Big Bang.

During my current Post-Doc research project, basing on my Ph.D. thesis results, I am focusing on building a complete sample of BdHNe looking at redshifts larger than $z \sim 1$, in order to drastically enlarge our current sample and to confirm that the standard candle hypothesis holds at larger cosmological distances. My recent analysis on a complete sample of 161 BdHNe, observed by the Swift satellite up to the end of 2015, points to a non-spherical emission of the late X-ray of BdHNe which is supposedly generated by the young SN remnant. This result is in agreement with the observations of non-spherical SN remnants.

II Conferences and educational activities

II a Conferences and Other External Scientific Work

- 1) “Erasmus Mundus School”, Nice, France, 5th - 17th September, 2011;
- 2) “IRAP Erasmus Mundus Workshop”, Les Houches, France, 2nd - 6th October, 2011;
- 3) “Third Galileo-Xu Guangqi” meeting, Beijing, China, 11th- 15th October, 2011;
- 4) “Fermi/Swift GRB 2012 Conference”, Munich, Germany, 7th – 11th May, 2012;

Poster 1: The proto-black hole concept in GRB 101023 and its possible extension to GRB 110709B; A.V. Penacchioni, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, G.B. Pisani;

Poster 2: Needs for a new GRB classification following the fireshell model: "genuine short", "disguised short" and "long" GRBs; C.L. Bianco, M.G. Bernardini, L. Caito, G. De Barros, L. Izzo, M. Muccino, B. Patricelli, A.V. Penacchioni, G. B. Pisani, R. Ruffini.

- 5) “Erasmus Mundus School”, Nice, France, 4th – 8th June, 2012;

Lecture: A new interpretation for the disguised short GRB 060614; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, J. A. Rueda, M. Muccino, A. V. Penacchioni.

- 6) “13th Marcel Grossmann Meeting”, Stockholm, Sweden, 1st - 7th July, 2012;

Talk: A new possible interpretation for GRB 060614; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, J. A. Rueda, M. Muccino, A. V. Penacchioni.

- 7) “Erasmus Mundus School”, Nice, France, 3rd – 19th September, 2012;

Lecture: The class of “disguised” short GRBs within the fireshell model and the particular case of GRB 060614; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni.

- 8) III National Congress “Lampi su Napoli”, Naples, Italy, 20th - 22nd September, 2012;

- 9) “The Current Issues on Relativistic Astrophysics”, 5th - 6th October, 2012, Seoul, South Korea;

Talk: Evidence and consequences of universal behavior of late time X-ray emission of Gamma-Ray Bursts connected with Supernovae; G. B. Pisani, R. Ruffini, C. L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

- 10) “7th Huntsville GRB Symposium”, Nashville TN, USA, 14th – 18th April, 2013;

Poster: Novel distance indicator for Gamma-Ray Bursts associated with Supernovae; G. B. Pisani, L. Izzo, R. Ruffini, C.L. Bianco, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

- 11) “2nd Bego Rencontres”, Nice, France, 16th – 31st May, 2013;

Talk: A new subclass of energetic GRB-SN sources: The IGC GRB-SN family; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

- 12) “2013 yearly ICRANet Scientific Meeting on Relativistic Astrophysics”, Pescara, Italy, 3rd – 21th June, 2013;

- 13) “1st URCA Meeting on Relativistic Astrophysics”, Rio de Janeiro, Brasil, 24th – 29th June, 2013;

Talk: A new subclass of energetic GRB-SN sources: The IGC GRB-SN family; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

- 14) “13th Italian-Korean Symposium on Relativistic Astrophysics”, Seoul, South Korea, 15th – 19th July, 2013;

Talk: A new subclass of energetic GRB-SN sources: The IGC GRB-SN family; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

15) “Erasmus Mundus School”, Nice, France, 3rd – 20th September, 2013;

Lecture: A new subclass of energetic GRB-SN sources: The IGC GRB-SN family; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

16) “27th Texas Meeting on Relativistic Astrophysics”, Dallas TX, USA, 8th - 13th, December 2013;

Talk: The IGC GRB-SN family: the cases of GRB 130427A and GRB 060614; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

17) “Erasmus Mundus School”, Nice, France, 23rd - 27th February, 2014;

Lecture 1: GRBs-SNe within the Induced Gravitational Collapse model; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang;

Lecture 2: The role of the High Energy in short and long GRBs; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

18) “Erasmus Mundus School”, Les Houches, France, 11th - 16th May, 2014;

Lecture: GRBs-SNe within the Induced Gravitational Collapse model: towards a new standard candle; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

19) “1st Scientific ICRANet Meeting in Armenia”, Yerevan, Armenia, 30th June - 4th July, 2014.

Talk: Energetic GRBs-SNe within the Induced Gravitational Collapse model: towards a new standard candle; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

20) “3rd Bego Rencontres”, Nice, France, 8th – 19th September, 2014;

Talk: Energetic GRBs-SNe within the Induced Gravitational Collapse; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang;

21) “Swift: 10 Years of Discovery”, Rome, Italy, 2nd – 5th December, 2015;

Poster: Binary-driven HyperNovae and their nested late X-ray emission; G. B. Pisani, R. Ruffini, M. Muccino, C. L. Bianco, M. Enderli, M. Kovacevic, A. V. Penacchioni, J. A. Rueda, Y. Wang, E. Zaninoni, L. Izzo;

22) “2nd Cesar Lattes Meeting”, Rio de Janeiro, Brazil, 10th – 20th April, 2015;

Talk: Perspectives for Binary-driven HyperNovae at high redshift; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang, E. Zaninoni;

23) “The XIV Marcel Grossmann Meeting”, Rome, Italy, 13th – 17th July, 2015;

Talk: Perspectives for Binary-driven HyperNovae at high redshift; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang, E. Zaninoni;

24) “The 14th Italian-Korean Symposium on Relativistic Astrophysics”, Pescara, Italy, 20th – 24th July, 2015;

Talk: Properties of the X-ray afterglow of Binary-driven HyperNovae; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang, E. Zaninoni;

25) “4th Bego Rencontres”, Nice, France, 30th May – 3rd June, 2016;

Lecture: Properties of the X-ray afterglow of Binary-driven HyperNovae; G. B. Pisani, R. Ruffini, Y. Aimuratov, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang;

26) “Supernovae, Hypernovae, and Binary-driven HyperNovae: an Adriatic Workshop”, Pescara, Italy, 20th – 27th June, 2016;

Talk: On the late X-ray afterglow of Binary-driven HyperNovae; G. B. Pisani, R. Ruffini, Y. Aimuratov, L.M. Becerra, C.L. Bianco, M. Karlica, M. Kovacevic, R. Moradi, M. Muccino, A. V. Penacchioni, D. Primorac, J.A. Rueda, Y. Wang.

II b Work With Students

Co-tutoring of Erasmus Mundus Ph.D. Students: Milos Kovacevic, Daria Primorac.

II c Diploma thesis supervision

None

II d Other Teaching Duties

None

II e. Work With Postdocs

None

III. Service activities [*activities carried out in collaboration with ICRANet (e.g. teaching activities, conferences etc...) and outside ICRANet (teaching activities in your university etc...)*]

III a. Within ICRANet

Teaching activities for international Ph.D. Schools organized by ICRANet. List of schools and lectures:

1) “Erasmus Mundus School”, Nice, France, 4th – 8th June, 2012;

Lecture: A new interpretation for the disguised short GRB 060614; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, J. A. Rueda, M. Muccino, A. V. Penacchioni.

2) “Erasmus Mundus School”, Nice, France, 3rd – 19th September, 2012;

Lecture: The class of “disguised” short GRBs within the fireshell model and the particular case of GRB 060614; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni;

3) “2nd Bego Rencontres”, Nice, France, 16th – 31st May, 2013;

Lecture: A new subclass of energetic GRB-SN sources: The IGC GRB-SN family; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

4) “Erasmus Mundus School”, Nice, France, 3rd – 20th September, 2013;

Lecture: A new subclass of energetic GRB-SN sources: The IGC GRB-SN family; G. B. Pisani, R. Ruffini, C.L. Bianco, L. Izzo, M. Muccino, A. V. Penacchioni, J. A. Rueda.

5) "Erasmus Mundus School", Nice, France, 23rd - 27th February, 2014;

Lecture 1: GRBs-SNe within the Induced Gravitational Collapse model; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang;

Lecture 2: The role of the High Energy in short and long GRBs; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

6) "Erasmus Mundus School", Les Houches, France, 11th - 16th May, 2014;

Lecture: GRBs-SNe within the Induced Gravitational Collapse model: towards a new standard candle; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

7) "3rd Bego Rencontres", Nice, France, 8th - 19th September, 2014;

Lecture: Energetic GRBs-SNe within the Induced Gravitational Collapse; G. B. Pisani, R. Ruffini, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang;

8) "4th Bego Rencontres", Nice, France, 30th May - 3rd June, 2016;

Lecture: Properties of the X-ray afterglow of Binary-driven HyperNovae; G. B. Pisani, R. Ruffini, Y. Aimuratov, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, M. Muccino, A. V. Penacchioni, J. A. Rueda, Y. Wang.

III b. Outside ICRANet

Teaching activity as assistant of Professor Valerio Parisi in his Physics classes for Medical Science students, Sapienza University of Rome: academic years 2015/2016 and 2016/2017.

IV. Other

None

List of Publications

Scientific papers published on refereed Journals (17)

- [Muccino, M.; Ruffini, R.; Bianco, C. L.; Izzo, L.; Penacchioni, A. V.; **Pisani, G. B.**, "GRB 090510: a disguised short GRB with the highest Lorentz factor and circumburst medium", 2013, ApJ, 772, 62;
- [Penacchioni, A.V.; Ruffini, R.; Bianco, C. L.; Izzo, L.; Muccino, M.; **Pisani, G. B.**; Rueda, J. A., "GRB 110709B in the induced gravitational collapse paradigm", 2013, A&A, 551, A133;
- [**Pisani, G. B.**; Izzo, L.; Ruffini, R.; Bianco, C. L.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y., "Novel distance indicator for gamma-ray bursts associated with supernovae", 2013, A&A, 552, L5;
- [Ruffini, R.; Muccino, M.; Bianco, C. L.; Enderli, M.; Izzo, L.; Kovacevic, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., "On binary-driven hypernovae and their nested late X-ray emission", 2014, A&A, 565, L10;
- [Ruffini, R.; Izzo, L.; Muccino, M.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y.; Barbarino, C.; Bianco, C. L.; Enderli, M.; Kovacevic, M., "Induced gravitational collapse at extreme cosmological distances: the case of GRB 090423", 2014, A&A, 569, A39;

- [Kovacevic, M.; Izzo, L.; Wang, Y.; Muccino, M.; Della Valle, M.; Amati, L.; Barbarino, C.; Enderli, M.; **Pisani, G. B.**; Li, L., "A search for Fermi bursts associated to supernovae and their frequency of occurrence", 2014, *A&A*, 569, A180;
- [Ruffini, R.; Izzo, L.; Muccino, M.; Rueda, J. A.; Barbarino, C.; Bianco, C. L.; Dereli, H.; Enderli, M.; Penacchioni, A. V.; **Pisani, G. B.**; Wang, Y., "Induced Gravitational Collapse in the BATSE era: the case of GRB 970828", 2015, *Astronomy Reports*, 59, 626;
- [Ruffini, R.; Wang, Y.; Kovacevic, M.; Bianco, C. L.; Enderli, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A., "GRB 130427A and SN 2013cq: A Multi-wavelength Analysis of an Induced Gravitational Collapse Event", 2015, *ApJ*, 798, 10.
- [Ruffini, R.; Muccino, M.; Kovacevic, M.; Izzo, L.; Bianco, C. L.; Enderli, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y.; Zaninoni, E., "GRB 140619B: a short GRB from a binary neutron star merger leading to a black hole formation", 2015, *ApJ*, 808, 190.
- [Muccino, R. Ruffini, C.L. Bianco, M. Enderli, M. Kovacevic, L. Izzo, A.V. Penacchioni, **G.B. Pisani**, J.A. Rueda, Y. Wang, "On binary driven hypernovae and their nested late X-ray emission", 2015, *Astronomy Reports*, 59, 581
- [Wang Y., Ruffini R., Kovacevic K., Bianco C. L., Enderli M., Muccino M., Penacchioni A.V., **Pisani G.B.**, Rueda J.A., "Predicting supernova associated to gamma-ray burst 130427a", 2015, *Astronomy Reports*, 59, 667
- [Ruffini R., Rueda J.A., Muccino M., Aimuratov Y., Becerra L.M., Bianco C.L., Kovacevic M., Moradi R., Oliveira F. G., **Pisani G.B.**, Wang Y., "On the classification of GRBs and their occurrence rates", 2016, *ApJ*, 832, 136
- [Luongo O., **Pisani G.B.**, Quevedo H., "Cardy-Verlinde entropy in Hořava-Lifshitz gravity", 2016, *Phys. Rev. D*, 93, 064057
- [Ruffini R., Muccino M., Aimuratov Y., Bianco C.L., Cherubini C., Enderli M., Kovacevic M., Moradi R., Penacchioni A.V, **Pisani G.B.**, Rueda J.A., Wang Y., "GRB 090510: a genuine short-GRB from a binary neutron star coalescing into a Kerr-Newman black hole", 2016, *ApJ*, 831, 178
- [**Pisani G.B.**, Ruffini R., Aimuratov Y., Bianco C.L., Kovacevic M., Moradi R., Muccino M., Penacchioni A.V., Rueda J.A., Shakeri S., Wang Y., "On the universal late X-ray emission of binary-driven hypernovae and its possible collimation", 2016, *ApJ*, 833, 159
- [Luongo O., **Pisani G.B.**, Troisi A., "Cosmological degeneracy versus cosmography: a cosmographic dark energy model", 2017, *International Journal of modern physics D*, 26, 1750015
- [Ruffini R., Rodriguez J., Muccino M., Rueda J.A, Aimuratov Y., Barres de Almeida U., Becerra L.M., Bianco C.L., Cherubini C., Filippi S., Gizzi D., Kovacevic M., Moradi R., Oliveira F.G., **Pisani G.B.**, Wang Y., "On the rate and on the gravitational wave emission of short and long GRBs", submitted to *ApJ*, arXiv:1602.03545

Proceedings of science (8)

- **Pisani, G. B.**; Ruffini, R.; Bianco, C. L.; Enderli, M.; Izzo, L.; Kovacevic, M.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y.; Zaninoni, E., "Perspectives for Binary-driven Hypernovae at large redshift", 2015, POS CL2;
- **Pisani, G. B.**; Ruffini, R.; Muccino, M.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y.; Zaninoni, E.; Izzo, L., "Binary-driven HyperNovae and their nested late X-ray emission", 2015, POS Swift: 10 Years of Discovery;
- **Pisani, G. B.**; Ruffini, R.; Bianco, C. L.; Enderli, M.; Izzo, L.; Kovacevic, M.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y., "The IGC GRB-SN family: the cases of GRB 130427A and GRB 060614", 2014, POS 27th Texas Symposium;

- **Pisani, G. B.**; Ruffini, R.; Bianco, C. L.; Enderli, M.; Izzo, L.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y., “A new subclass of energetic GRB-SN sources: the IGC GRB-SN family”, 2013, POS IK13;
- **Pisani, G. B.**; Izzo, L.; Ruffini, R.; Bianco, C. L.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y., “On a novel distance indicator for Gamma-Ray Bursts associated with Supernovae”, 2013, POS Huntsville GRB Symposium;
- **Pisani, G. B.**; Izzo, L.; Ruffini, R.; Bianco, C. L.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Wang, Y., “On a novel distance indicator for Gamma-Ray Bursts associated with Supernovae”, 2013, POS MG13;
- Bianco, C. L.; Bernardini, M. G.; Caito, L.; De Barros, G.; Izzo, L.; Muccino, M.; Patricelli, B.; Penacchioni, A. V.; **Pisani, G. B.**; Ruffini, R., “Needs for a new GRB classification following the fireshell model: "genuine short", "disguised short" and "long" GRBs”, 2012, POS GRB 2012 Conference;
- Penacchioni, A. V.; **Pisani, G. B.**; Ruffini, R.; Bianco, C. L.; Izzo, L.; Muccino, M., “The proto-black hole concept in GRB 101023 and its possible extension to GRB 110709B”, 2012, POS GRB 2012 Conference.

GRB Coordinates Network, Circular Service (11)

- Ruffini, R.; Aimuratov, Y.; Barres, U.; Belvedere, R.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Moradi, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., “GRB 151027A: the missing GeV component”, 2015, GCN 18555, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Li, L.; Muccino, M.; Muccino, M.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., “GRB 150906B: theoretical estimation of redshift and isotropic energy”, 2015, GCN 18296, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., “GRB 140206A: theoretical prediction of redshift and of supernova occurrence”, 2014, GCN 15794, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., “GRB 140108A: theoretical prediction of redshift and of supernova occurrence”, 2014, GCN 15707, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., “GRB 131202A: theoretical estimation of the redshift.”, 2013, GCN 15576, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Kovacevic, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Wang, Y., “GRB 060614: theoretical derivation of the redshift and need for deeper search of the host galaxy”, 2013, GCN 15560, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Sahakyan, N.; Wang, Y.; Izzo, L., “GRB 130925A: possible signatures of binary nature in the afterglow - request for observations”, 2013, GCN 15322, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Sahakyan, N.; Wang, Y., “GRB 130603B: analogy with GRB 090510A and possible connection with a supernova”, 2013, GCN 14913, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Sahakyan, N.; Wang, Y.; Izzo, L., “GRB 130609B: theoretical redshift estimation”, 2013, GCN 14888, 1;
- Ruffini, R.; Bianco, C. L.; Enderli, M.; Muccino, M.; Penacchioni, A. V.; **Pisani, G. B.**; Rueda, J. A.; Sahakyan, N.; Wang, Y.; Izzo, L., “GRB 130427A: predictions about the occurrence of a supernova”, 2013, GCN 14526, 1;
- Ruffini, R.; Izzo, L.; **Pisani, G. B.**; Bianco, C. L., “GRB 121217A theoretical estimate of redshift and of supernova occurrence”, 2012, GCN 14095, 1.