



Poonam Chandra

CONTACT INFORMATION	National Centre for Radio Astrophysics Tata Institute of Fundamental Physics Pune University Campus, Ganeshkhind Pune 411007, Maharashtra INDIA	<i>Phone:</i> +91 20 2571 9290 <i>Fax:</i> +91 20 2569 7257 <i>E-mail:</i> poonam@ncra.tifr.res.in www.ncra.tifr.res.in:8081/~poonam/
CITIZENSHIP	Indian	
RESEARCH INTERESTS	<ul style="list-style-type: none">• Circumstellar interaction in Supernovae• Gamma Ray Bursts Afterglows• Searching for afterglows of Fast Radio Bursts• Radio magnetospheres of massive stars• Acceleration mechanisms in TeV supernova remnants	
EDUCATION	Ph.D. , Astrophysics, Joint Astronomy Programme of Indian Institute of Science, Bangalore at Tata Institute of Fundamental Research (TIFR), India Thesis Title: <i>Circumstellar Interaction in young supernovae: Inputs from radio and X-ray wavelengths</i> , Adviser: Professor Alak Ray, TIFR, Mumbai M.Sc. , Physics, Aligarh Muslim University, India B.Sc. , Honors in Physics, Dayalbagh Educational Institute, India	
ACADEMIC APPOINTMENTS	Reader -F National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune, INDIA Adjunct Assistant Professor Department of Physics, Royal Military College of Canada, Kingston, ON, Canada Research Associate Department of Physics, Royal Military College of Canada, Kingston, ON, Canada Jansky Postdoctoral Fellow National Radio Astronomy Observatory at Department of Astronomy, University of Virginia, Charlottesville, VA, USA	August 2012 to present June 2010 – August 2012 September 2008 – December 2011 October 2005 – August 2008
ACADEMIC AWARDS AND GRANTS	<ul style="list-style-type: none">• Natural Sciences and Engineering Research Council of Canada (NSERC) discovery grant (CAD 140,000) for Canadian faculties, 2011.• Natural Sciences and Engineering Research Council of Canada (NSERC) funding (CAD 10,000) for early career researchers, 2011.• Young Scientist Award by the International Union of Pure and Applied Physics (IUPAP), 2010.• Young Scientist of India of The Indian National Science Academy (INSA), 2007.• Best Thesis Award: L. Meera Medal in Theoretical Physics at Indian Institute of Science, Bangalore, India, 2007.• Tata Institute of Fundamental Research scholarship during doctoral studies towards the degree of Doctor of Philosophy.• Selected as one of the 20 participants representing India in the Young scientists meeting with Nobel Laureates program in Germany.• Sarojini Damodaran International Fellowship (Rs. 1.18 Lakh).• Kanwal Rekhi award for students career promotion, TIFR.	



- Council of Scientific and Industrial Research (CSIR) research grant.
- Qualified in all India level CSIR-NET (National Eligibility Test for qualification in teaching in Indian universities).
- F.D.Murad Imamuddin medal (for obtaining first rank in Masters degree in Physics, Aligarh Muslim University).

TEACHING
EXPERIENCE

- Elective course “Astronomy and Astrophysics-I” (PHY-T311) to M.Sc. IInd year students at Department of Physics, Pune University, Pune, India. September – December, 2014
- Elective course “Astronomy and Astrophysics-I” (PHY-T311) to M.Sc. IInd year students at Department of Physics, Pune University, Pune, India. September – December, 2013
- Distance learning course “Introductory Physics” (PHE 134), Royal Military College of Canada, Kingston, ON, Canada. Summer 2011
- Distance learning course “Introduction to Astrophysics” (PHE203), Royal Military College of Canada, Kingston, ON, Canada. Summer 2010
- Undergraduate course “Astronomy and the Evolving Universe” (PHE360), Royal Military College of Canada, Kingston, ON, Canada. January – May, 2009
- Teaching Assistant for High Energy Astrophysics course given to Masters (M.Sc.) students of Mumbai University, Mumbai, India. Fall 2001.

PROFESSIONAL
SERVICE

Referee for publications in peer-review journals:

- The Astrophysical Journal
- The Astrophysical Journal Letters
- Monthly Notices of the Royal Astronomical Society
- Advances in Space Research
- New Astronomy
- Research in Astronomy & Astrophysics

Reviewing applications:

- Reviewed applications for NASA Postdoctoral Program

Membership of Professional Organizations:

- Member of Astronomical Society of India

In organizing Conferences and Workshops:

- Member of the Local Organizing Committee for “Astronomical Society of India meeting 2015” at NCRA, Pune, India. February 17 – 20, 2014
- Member of the Local Organizing Committee “IAUS 296: Supernova environmental impacts” at Raichak, India. January 7 – 11, 2013
- Member of the Scientific Organizing Committee for workshop “A Festival of Cosmic Explosions” at Caltech, CA, USA. August 21 –23, 2009
- Chairperson of the Scientific Organizing Committee for “The 2008 NRAO Postdoctoral Symposium” at NRAO, Charlottesville, VA, USA. April 28 –29, 2008
- Member of the Local Organizing Committee for “Workshop on Supernovae, Gamma Ray Bursts and Pulsars” at TIFR, Mumbai, India. January 19 –23, 2004

Reviewer of following telescope proposals:

- Himalayan Chandra Telescope, 2014.
- IUCAA Girawali Observatory, 2014.
- Giant Metrewave Radio Telescope, 2014, 2015.
- Gemini Observatory, 2008.
- Chandra X-ray Observatory, 2007, 2009.

MAJOR
TELESCOPE TIME
AWARDS

Principal Investigator of:



- GMRT proposal on MiMeS sources cycles 27 (80 hrs) and 25 (40 hrs).
- GMRT proposal on HESS 1731-247 cycle 25 (24 hrs).
- GMRT proposal on GRB 130427A, cycle 25 (18 hrs)
- GMRT proposal on GRB 130702A, cycle 25 (30 hrs)
- Chandra Target of Opportunity (ToO) proposals on Type IIIn Supernovae in cycle 15 (80 ks), cycle 11 (40 ks) and cycle 10 (40 ks).
- Chandra proposals to study the evolution of supernova SN 2010jl under cycle 15 (40 ks) and cycle 13 (80 ks).
- Very Large Array (VLA) proposal for radio emission from magnetic OB stars, semester 14A (36 hrs).
- Chandra proposal to study X-ray emission from SN 1995N in cycle 5 (55 ks).
- XMM-Newton proposal on Type IIIn Supernovae spectroscopy in cycle 11 (53 ks) and cycle 7 (86 ks).
- XMM-Newton proposal on evolution of SN 2010jl in cycle 12 (43 ks).
- VLA ToO proposals on Type IIIn supernovae, semesters 13B (7 hrs), 12B (15 hrs), 10C, 9C and 8C, 7B.
- GMRT proposals on SN 2006jd, cycles 17 and 18.
- VLA proposal for old non-detected Type IIIn supernovae, semester 12A (15 hrs).
- VLA proposal for SN 2010jl in semester 12A (14 hrs).
- VLA proposals on SN 2006jd, semesters 13B (6 hrs), 12A (6 hrs), 9C, 8C and 8B,
- VLA proposals on SN 1993J, semester 10C
- VLA proposals on SN 2008iy, semester 12A (4 hrs), 10C
- VLA proposals on supernovae 2005kd, semester 12A, 7C, 7B, 7A.
- VLA proposals on GRBs 100418A and GRB 100814A, semesters 11B, 10C,
- VLA proposal for $z=8.3$ gamma ray burst 090423, semester 9A.
- VLA proposal for brightest naked eye burst GRB 080319B, semester 8C.
- VLA proposal on GRB 070125, semester 7C, 7B.
- VLA proposal for circumstellar interaction in Type Ia supernova SN 2006X, semester 8A, 6C.
- Giant Meterwave Radio Telescope (GMRT) proposals on SN 1993J in cycles 1, 2, 7, 12, 17 and 18.
- GMRT proposals on SN 2004dj, cycles 6, 7 and 12.
- GMRT proposals on SN 2001gd, cycles 1, 2, 4, and 5.
- GMRT proposal on SN 1979C, SN 2002ap, SN 1994W, SN 1995N, SN 1994I, SN 2002bu, SN 1986J and SN 2002ao in cycles 1 and 2 and 5, 6 and 7.
- GMRT proposals on SN 2002hh, SN 2003gd, SN 2003gf, SN 2003bg and SN 2003hn, cycle 4, 5 and 6.
- GMRT proposals on HI absorption at high redshift galaxy (2000, 2002).
- Several DDT proposals on GRBs and supernovae with the GMRT.

Co-investigator of:

- Joint Spitzer/Chandra proposal to study mass-loss history of Type IIIn supernovae in cycle 15 (80ks).
- Joint Chandra/VLA proposal for Type IIp supernovae in cycle 15 (160 ks), cycle 13 (40 ks)
- Hubble Space Telescope proposal for SN 1993J in cycle 22.
- VLA proposal on ultraluminous supernovae, semester 13B (12 hrs).
- VLA proposal on Gamma Ray Bursts, semester 12A (50 hrs), 10C, 10A, 9C, 8C, 7C, 7B,
- VLA proposal on transient radio sky, semester 10B, 8B,
- Joint Fermi/VLA proposal for energetic Gamma Ray Bursts in cycles 1, 2, 3, 4, 5.
- VLT proposal on Type Ia supernovae (2008).
- GMRT proposals on HI mapping of nearby galaxies, cycles 22 (24 hrs) and 23 (48 hrs)



- GMRT proposal on Fast Radio Bursts, cycle 27 (50 hrs).
- Shadowing proposal with Parkes, cycles 27 (42 hrs) and 26 (42 hrs).

HARDWARE AND SOFTWARE SKILLS **Astronomy Analysis Software:**

- AIPS, CASA, DS9, SAOimage, SAS, CIAO, XSPEC, HeaSOFT.

Computer Programming:

- IDL, Python and Mathematica.

Productivity Applications:

- gnuplot, Grace, \TeX (\LaTeX , \BibTeX , \PSTricks), Vim, most common productivity packages (for OS X and Linux)

**CONFERENCE,
WORKSHOPS AND
TALKS**

Colloquia:

- At Indian Institute of Science, Bengaluru, India, November 18, 2014.
- At Tata Institute of Fundamental Research, Mumbai, India, August 27, 2014.
- At National Centre for Radio Astrophysics, Pune, India, January 4, 2013.
- At Inter University Centre for Astronomy and Astrophysics, Pune, India, January 2011.
- At Raman Research Institute, Bengaluru, India, December 2010.
- At Indian Institute of Science, Bengaluru, India, December 2010.
- At Indian Institute of Astrophysics, Bengaluru, India, December 2010.
- At Queen's University, Kingston, Canada, April 2010.
- At Queen's University, Kingston, Canada, November 2008.
- At Royal Military College of Canada, Kingston, Canada, October 2008.
- At National Radio Astronomy Observatory, Charlottesville, USA, November 2005.
- At Tata Institute of Fundamental Research, Mumbai, India, July 2005.
- At Indian Institute of Science, Bengaluru, India, July 2005.

Invited Talks:

- "Indian participation in SKA" - Satellite work shop of Astronomical Society of India meeting 2015, NCRA, Pune February 16, 2015.
- Plenary talk in Astronomical Society of India meeting 2015, NCRA, Pune February 17-20, 2015.
- BinaMics #3 and MiMeS meeting, Paris Observatory, France July 21-25, 2014
- MIT-IUCAA workshop on X-ray studies of transient astronomical sources, IUCAA Pune, January 13-24, 2014.
- Gravitational Wave Physics and Astronomy Workshop, in session on "Astronomy and Physics with LIGO-India", IUCAA Pune, December 17-20, 2013.
- Huntsville Gamma Ray Burst Symposium, GRB2013, Nashville, USA, April 14-18, 2013.
- IAUS 296: Supernova environmental impacts, Raichak, India, January 7-11, 2013.
- 25th Texas Symposium on Relativistic Astrophysics, Heidelberg, Germany, December 6-11, 2010.
- Rogerfest: A celebration of cosmic explosion, Caltech, USA, August 2009.
- Supernova 1987A: 20 Years After. Supernovae and Gamma-Ray Bursters, Aspen, Colorado, USA, February 19-23, 2007.
- NRAO Postdoctoral fellow symposium 2008, Charlottesville, USA, April 2008.
- NRAO Postdoctoral fellow symposium 2007, Greenbank, USA, April 2008.
- NRAO Postdoctoral fellow symposium 2006, Socorro, USA, April 2008.
- Workshop on "75th Birthday of Prof. Govind Swarup", NCRA, Pune, India, March 22-23, 2004.
- Workshop on Supernovae, Gamma-ray Bursts and Pulsars, TIFR, Mumbai, India, January 19-23, 2004, .

Oral Presentations:

- Astronomical Society of India meeting, IISER Mohali, March 20-22, 2014.
- Regional conference on radio science, SIT Pune, January 2-5, 2014.
- The Metrewavelength Sky, NCRA-TIFR, Pune, December 9-13, 2013.
- CASCA 2011 meeting, University of London, ON, Canada, May 30-Jun 2, 2011.
- CASCA 2009 meeting, University of Toronto, May 26-29, 2009.
- Magnetism in Massive Stars (MiMeS) II meeting, Paris, France, May 11-15, 2009.
- COSPAR: 37th assembly meeting, Montreal, Canada, July 13-20, 2008.
- Gamma-Ray Bursts 2007, Santa Fe, New Mexico, USA, November 5-9, 2007.
- Workshop on “From Massive Stars to Supernova Remnants”, Leiden, The Netherlands, August 6-17, 2007.
- Postdoctoral Interview talk on “Circumstellar interaction of supernovae”, Niels Bohr Institute, University of Copenhagen, Denmark, January 2005.
- International Conference 1604-2004: Supernovae as Cosmological Light houses, Padova, Italy, June 16-19, 2004.

Poster Presentations:

- Conference Supernova and Gamma Ray Burst Remnants in Santa Barbara, CA, February 2006.
- 207th Meeting of the American Astronomical Society in Washington, D.C. from January 10-12, 2006.
- NATO International School of Cosmic Ray Astrophysics: 14th Course-Neutrinos and Explosive Events in the Universe, Erice, Sicily, Italy, July 2-13, 2004,.
- Students-Nobel Laureates meeting in Physics, Lindau, Germany, June 28-July 2, 2004.
- Beppo-Sax symposium “Exploring the X-ray Universe”, Amsterdam, The Netherlands, May 5-8, 2003, .
- IAU colloquium192 “10 years of SN1993J”, Valencia, Spain, April 22-26, 2003.
- “Particles, Strings and Cosmology”, TIFR, Mumbai, India, January 3-8, 2003.
- Multicolor Universe, TIFR, Mumbai, India, September 11-14, 2001.
- 21st Astronomical Society of India meeting, Pune, India, February 5-8, 2002.

PUBLIC OUTREACH

- Outreach talk at Aastronomica, Pune, February 1 2015.
- Outreach talk in IISER Pune Astronomy club, September 8 2014.
- Outreach talk at Exciting Science Group – An Initiative of NCL scientists and IISER-P faculty, January 27 2014.
- Public Astronomy talk at Novelis Global Technology Center, International Year of Astronomy, August 2009.
- Public lecture at McCormick observatory, Charlottesville, Public Astronomy Night, June 2008.
- Popular Astronomy talk at Richmond Astronomical Society in Richmond, December 2007.
- Astronomy talk at the Jefferson Institute for Lifelong Learning, Charlottesville, Personal enrichment classes for senior citizens, October 2007.
- Public talk at McCormick observatory, Charlottesville, Public Astronomy Night, August 2007.
- Popular Astronomy talk at The Jefferson Institute for Lifelong Learning, Charlottesville, VA, December 2006.
- Special mention by the National Service Scheme, India for contributing to their mission of increasing the literacy levels in India by Adult Education, 1995.

COVERAGE IN MEDIA

For IUPAP young scientist award:

- Television interview on CKWS Canadian TV channel, January 2011.



- “Whats happening at RMC?”, e-VERITAS electronic Newsletter, January 23, 2011.
- “India Canada Association Winter Newsletter”, 2011.

For SN 2009bb work:

- “SN 2009bb: where are the gamma rays?”, In CERN courier, February 24, 2010
- “Newborn black holes add power to exploding stars” Astronomy Now, January 28, 2010.

For GRB 090423 work:

- In Ottawa Citizen newspaper, Canada, October 2009.
- In Vancouver Sun newspaper, Canada, October 2009.
- In National Radio Astronomy Observatory press release, October 2009.

For Type Ia SN 2006X work:

- European Organisation for Astronomical Research (ESO) press release, May 2007.

For work on Soft Gamma Ray Repeater SGR 1806-20:

- For work on Soft Gamma Ray Repeater SGR 1806-20 published in Nature: Interview on TV channel NDTV of India on April 30, 2005.
- Interview on TV channel Sahara Samay of India on May 14, 2005.
- In newspaper “Deccan Herald”, India on April 28, 2005.
- In newspaper “The Times of India”, India, May 03, 2005.
- In newspaper “Indian Express”, May 04, 2005.
- In newspaper “Gujarat Samachar”, India, September 27, 2005.
- In newspaper “Maharashtra Times”, India, May 08, 2005.
- In newspaper “Nav Prabhat”, India, May 02, 2005.
- In newspaper “Nav Bharat Times”, India, May 08, 2005.

PUBLICATIONS

In Refereed Journals:

1. “*Detection of 610-MHz radio emission from hot magnetic stars*”, Chandra, P.; Wade, G. A.; Sundqvist, J. O.; Oberoi, D.; Grunhut, J. H.; ud-Doula, A.; Petit, V.; Cohen, D. H.; Oksala, M. E.; David-Uraz, A. 2015, MNRAS, 452, 1245
2. “*Identifying the source of perytons at the Parkes radio telescope*”, Petroff, E.; Keane, E. F.; Barr, E. D.; Reynolds, J. E.; Sarkissian, J.; Edwards, P. G.; Stevens, J.; Brem, C.; Jameson, A.; Burke-Spolaor, S.; Johnston, S.; Bhat, N. D. R.; Kudale, S. Chandra P.; Bhandari, S. 2015, MNRAS 451, 3933
3. “*X-ray and radio emission from Type II supernova SN 2010jl*”, Chandra, Poonam; Chevalier, Roger A.; Chugai, Nikolai; Fransson, Claes; Soderberg, Alicia M. 2015, to appear in ApJ, arXiv:1507.06059
4. “*The optical rebrightening of GRB100814A: an interplay of forward and reverse shocks?*”, De Pasquale, Massimiliano; Kuin, N. P. M.; Oates, S.; Schulze, S.; Cano, Z.; Guidorzi, C.; Beardmore, A.; Evans, P. A.; Uhm, Z. L.; Zhang, B.; Page, M.; Kobayashi, S.; Castro-Tirado, A.; Gorosabel, J.; Sakamoto, T.; Fatkhullin, T.; Pandey, S. B.; Im, M.; Chandra, P.; Frail, D.; Gao, H.; Kopac, D.; Jeon, Y.; Akerlof, C.; Huang, K. Y.; Pak, S.; Park, W.-K.; Gomboc, A.; Melandri, A.; Zane, S.; Mundell, C. G.; Saxton, C. J.; Holland, S. T.; Virgili, F.; Urata, Y.; Steele, I.; Bersier, D.; Tanvir, N.; Sokolov, V. V.; Moskvitin, A. S. 2015, 449, 1024
5. “*A real-time fast radio burst: polarization detection and multiwavelength follow-up*”, Petroff, E.; Bailes, M.; Barr, E. D.; Barsdell, B. R.; Bhat, N. D. R.; Bian, F.; Burke-Spolaor, S.; Caleb, M.; Champion, D.; Chandra, P.; Da Costa, G.; Delvaux, C.; Flynn, C.; Gehrels, N.; Greiner, J.; Jameson, A.; Johnston, S.; Kasliwal, M. M.; Keane, E. F.; Keller, S.; Kocz, J.; Kramer, M.; Leloudas, G.; Malesani, D.;

- Mulchaey, J. S.; Ng, C.; Ofek, E. O.; Perley, D. A.; Possenti, A.; Schmidt, B. P.; Shen, Yue; Stappers, B.; Tisserand, P.; van Straten, W.; Wolf, C. 2015, MNRAS 447, 246
6. “*An extremely optically dim tidal feature in the gas-rich interacting galaxy group NGC 871/NGC 876/NGC 877*”, Lee-Waddell, K.; Spekkens, K.; Cuillandre, J.-C.; Cannon, J.; Haynes, M. P.; Sic k, J.; Chandra, P.; Patra, N.; Stierwalt, S.; Giovanelli, R. 2014, MNRAS 443, 3601L
 7. “*Uncovering the Putative B-star Binary Companion of the SN 1993J Progenitor*”, Fox, Ori D.; Azalee Bostroem, K.; Van Dyk, Schuyler D.; Filippenko, Alexei V.; Fransson, Claes; Matheson, Thomas; Cenko, S. Bradley; Chandra, Poonam; Dwarkadas, Vikram; Li, Weidong, 2014, ApJ 790, 17
 8. “*Electron Cooling in a Young Radio Supernova: SN 2012aw*”, Yadav, Naveen; Ray, Alak; Chakraborti, Sayan; Stockdale, Christopher; Chandra, Poonam; Smith, Randall; Roy, Rupak; Bose, Subhash; Dwarkadas, Vikram; Sutaria, Firoza; Pooley, David 2014, ApJ 780, 30
 9. “*A Panchromatic View of the Restless SN 2009ip Reveals the Explosive Ejection of a Massive Star Envelope*”, Margutti, R.; Milisavljevic, D.; Soderberg, A. M.; Chornock, R.; Zauderer, B. A.; Murase, K.; Guidorzi, C.; Sanders, N. E.; Kuin, P.; Fransson, C.; Levesque, E. M.; Chandra, P.; Berger, E.; Bianco, F. B.; Brown, P. J.; Challis, P.; Chatzopoulos, E.; Cheung, C. C.; Choi, C.; Chomiuk, L.; Chugai, N.; Contreras, C.; Drout, M. R.; Fesen, R.; Foley, R. J.; Fong, W.; Friedman, A. S.; Gall, C.; Gehrels, N.; Hjorth, J. etc. 2014, ApJ 780, 21
 10. “*Radio Observations of GRB 100418a: Test of an Energy Injection Model Explaining Long-lasting GRB Afterglows*”, Moin, A.; Chandra, P.; Miller-Jones, J. C. A.; Tingay, S. J.; Taylor, G. B.; Frail, D. A.; Wang, Z.; Reynolds, C.; Phillips, C. J. 2013, ApJ 779, 105
 11. “*A Reverse Shock in GRB 130427A*”, Laskar, T.; Berger, E.; Zauderer, B. A.; Margutti, R.; Soderberg, A. M.; Chakraborti, S.; Lunnan, R.; Chornock, R.; Chandra, P.; Ray, A. 2013, ApJ 776, 119L
 12. “*The Progenitor of SN 2011ja: Clues from Circumstellar Interaction*”, Chakraborti, Sayan; Ray, Alak; Smith, Randall; Ryder, Stuart; Yadav, Naveen; Sutaria, Firoza; Dwarkadas, Vikram V.; Chandra, Poonam; Pooley, David; Roy, Rupak 2013, ApJ 774, 30
 13. “*The optical rebrightening of GRB100814A: an interplay of forward and reverse shocks?*”, De Pasquale, Massimiliano; Kuin, N. P.; Oates, S.; Schulze, S.; Cano, Z.; Guidorzi, C.; Beardmore, A.; Evans, P. A.; Uhm, Z. L.; Zhang, B.; Page, M.; Kobayashi, S.; Castro-Tirado, A.; Gorosabel, J.; Sakamoto, T.; Fatkhullin, T.; Pandey, S. B.; Im, M.; Chandra, P.; Frail, D.; Gao, H. et al. 2013, eprint arXiv:1312.1648
 14. “*Illuminating the Darkest Gamma-Ray Bursts with Radio Observations*”, Zauderer, B. A.; Berger, E.; Margutti, R.; Levan, A. J.; Olivares E., F.; Perley, D. A.; Fong, W.; Horesh, A.; Updike, A. C.; Greiner, J.; Tanvir, N. R.; Laskar, T.; Chornock, R.; Soderberg, A. M.; Menten, K. M.; Nakar, E.; Carpenter, J.; Chandra, P.; Castro-Tirado, A. J.; Bremer, M.; Gorosabel, J.; Guziy, S.; Prez-Ramrez, D.; Winters, J. M. 2013, ApJ 767, 161.
 15. “*Pre-existing dwarfs, tidal knots and a tidal dwarf galaxy: an unbiased H I study of the gas-rich interacting galaxy group NGC 3166/9*”, Lee-Waddell, K.; Spekkens, K.; Haynes, M. P.; Stierwalt, S.; Chengalur, J.; Chandra, P.; Giovanelli, R. 2012, MNRAS 427, 2314L



16. “*X-Ray Emission from SN 2004dj: A Tale of Two Shocks*”, Chakraborti, Sayan; Yadav, Naveen; Ray, Alak; Smith, Randall; Chandra, Poonam; Pooley, David 2012, ApJ 761, 100
17. “*Radio and X-Ray Observations of SN 2006jd: Another Strongly Interacting Type II_n Supernova*”, Chandra, Poonam; Chevalier, Roger A.; Chugai, Nikolai; Fransson, Claes; Irwin, Christopher M.; Soderberg, Alicia M.; Chakraborti, Sayan; Immler, Stefan 2012, ApJ 755, 110
18. “*Strong Evolution of X-Ray Absorption in the Type II_n Supernova SN 2010jl*”, Chandra, Poonam; Chevalier, Roger A.; Irwin, Christopher M.; Chugai, Nikolai; Fransson, Claes; Soderberg, Alicia M. 2012, ApJ 750, 2L.
19. “*A Radio-selected Sample of Gamma-Ray Burst Afterglows*”, Chandra, Poonam; Frail, Dale A. 2012, ApJ 746, 156
20. “*A faint optical flash in dust-obscured GRB 080603A: implications for GRB prompt emission mechanisms*”, Guidorzi, C.; Kobayashi, S.; Perley, D. A.; Vianello, G.; Bloom, J. S.; Chandra, P.; Kann, D. A.; Li, W.; Mundell, C. G.; Pozanenko, A. 2011, MNRAS 417, 2124
21. “*A Very Large Array Search for 5 GHz Radio Transients and Variables at Low Galactic Latitudes*”, Ofek, E. O.; Frail, D. A.; Breslauer, B.; Kulkarni, S. R.; Chandra, P.; Gal-Yam, A.; Kasliwal, M. M.; Gehrels, N. 2011, ApJ 740, 65
22. “*Afterglow Observations of Fermi Large Area Telescope Gamma-ray Bursts and the Emerging Class of Hyper-energetic Events*”, Cenko, S. B.; Frail, D. A.; Harrison, F. A.; Haislip, J. B.; Reichart, D. E.; Butler, N. R.; Cobb, B. E.; Cucchiara, A.; Berger, E.; Bloom, J. S.; Chandra, P.; Fox, D. B.; Perley, D. A.; Prochaska, J. X.; Filippenko, A. V. 2011, ApJ 732, 29
23. “*Ultra-high-energy cosmic ray acceleration in engine-driven relativistic supernovae*”, Chakraborti, S.; Ray, A.; Soderberg, A. M.; Loeb, A.; Chandra, P. 2011, Nature Communications 2, 175
24. “*Gamma Ray Bursts and their afterglow properties*”, Chandra, Poonam; Frail, Dale A. 2011, Bulletin of the Astronomical Society of India 39, 451
25. “*Unveiling the Origin of Grb 090709A: Lack of Periodicity in a Reddened Cosmological Long-Duration Gamma-Ray Burst*”, Cenko, S. B.; Butler, N. R.; Ofek, E. O.; Perley, D. A.; Morgan, A. N.; Frail, D. A.; Gorosabel, J.; Bloom, J. S.; Castro-Tirado, A. J.; Cepa, J.; Chandra, P.; de Ugarte Postigo, A.; Filippenko, A. V.; Klein, C. R.; Kulkarni, S. R. et al. 2010, AJ 140, 224.
26. “*Discovery of Radio Afterglow from the Most Distant Cosmic Explosion*”, Chandra, Poonam; Frail, Dale A.; Fox, Derek; Kulkarni, Shrinivas; Berger, Edo; Cenko, S. Bradley; Bock, Douglas C.-J.; Harrison, Fiona; Kasliwal, Mansi 2010, ApJ 712, L31
27. “*The Collimation and Energetics of the Brightest Swift Gamma-ray Bursts*”, Cenko, S. B.; Frail, D. A.; Harrison, F. A.; Kulkarni, S. R.; Nakar, E.; Chandra, P. C.; Butler, N. R.; Fox, D. B.; Gal-Yam, A.; Kasliwal, M. M.; Kelemen, J.; Moon, D.-S.; Ofek, E. O.; Price, P. A.; Rau, A.; Soderberg, A. M. et al. 2010, ApJ 711, 641.
28. “*A relativistic type Ibc supernova without a detected gamma-ray burst*”, Soderberg, A. M.; Chakraborti, S.; Pignata, G.; Chevalier, R. A.; Chandra, P.; Ray, A.; Wieringa, M. H.; Copete, A.; Chaplin, V.; Connaughton, V.; Barthelmy, S. D.; Bietenholz, M. F. et al. 2010, Nature 463, 513



29. “*The High-metallicity Explosion Environment of the Relativistic Supernova 2009bb*”, Levesque, E. M.; Soderberg, A. M.; Foley, R. J.; Berger, E.; Kewley, L. J.; Chakraborti, S.; Ray, A.; Torres, M. A. P.; Challis, P.; Kirshner, R. P.; Barthelmy, S. D.; Bietenholz, M. F.; Chandra, P.; Chaplin, V.; Chevalier, R. A.; Chugai, N. et al. 2010, ApJ 709, L26
30. “*X-rays from the Explosion Site: 15 Years of Light Curves of SN 1993J*”, Chandra, Poonam; Dwarkadas, Vikram V.; Ray, Alak; Immler, Stefan; Pooley, David 2009, ApJ 699, 388
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