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(6 Jan. 2016)

Refereed Articles

1. *Avalanche Photon Cooling by Induced Compton Scattering: Higher-Order Kompaneets Equation*
Shuta J. Tanaka, Katsuaki Asano, & Toshio Terasawa,
Progress of Theoretical and Experimental Physics 073E01 (2015)
2. *Synchrotron X-ray Emission from Old Pulsars*
Shota Kisaka, & **Shuta J. Tanaka**,
Monthly Notices of the Royal Astronomical Society, 443, 2063 (2014)
3. *Constraint on Pulsar Wind Properties from Induced Compton Scattering off Radio Pulses*
Shuta J. Tanaka, & Fumio Takahara,
Progress of Theoretical and Experimental Physics 123E01 (2013)
4. *Properties of Young Pulsar Wind Nebulae: TeV Detectability and Their Pulsar Properties*
Shuta J. Tanaka, & Fumio Takahara,
Monthly Notices of the Royal Astronomical Society, 429, 2945 (2013)
5. *Study of Four Young TeV Pulsar Wind Nebulae with a Spectral Evolution Model*
Shuta J. Tanaka, & Fumio Takahara,
The Astrophysical Journal, 741, 40 (2011)
6. *A Model of the Spectral Evolution of Pulsar Wind Nebulae*
Shuta J. Tanaka, & Fumio Takahara,
The Astrophysical Journal, 715, 1248 (2010)
7. *Molecular Clouds as a Probe of Cosmic-Ray Acceleration in a Supernova Remnant*
Yutaka Fujita, Yutaka Ohira, **Shuta J. Tanaka**, & Fumio Takahara,
The Astrophysical Journal Letters, 707, L179 (2009)

Conference Proceedings

1. *X-ray Emission from Middle-Aged Gamma-Ray Pulsars*
S. Kisaka, & **S. J. Tanaka**,
Proceedings of 2014 Fermi Symposium, Nagoya, Japan, 2014
2. *Synchrotron Emission from Old Pulsars*
S. J. Tanaka, & S. Kisaka,
Proceedings of Suzaku-MAXI 2014, Ehime, Japan, 2014
3. *High Energy Emission from Spherically Symmetric Pulsar Wind Nebulae*
S. J. Tanaka,
Proceedings of Suzaku-MAXI 2014, Ehime, Japan, 2014
4. *Hard X-ray observations with Suzaku HXD at the time of giant radio pulses from the Crab pulsar*
R. Mikami, T. Terasawa, S. Kisaka, K. Asano, **S. J. Tanaka**, et al.
Proceedings of Suzaku-MAXI 2014, Ehime, Japan, 2014
5. *Model of Radio Emission from Spherically Symmetric Pulsar Wind Nebulae*
S. J. Tanaka,
Proceedings of Electromagnetic Radiation from Pulsars and Magnetars, Zielona Góra, Poland,

2012

6. *Model of Radio Emission from Spherically Symmetric Pulsar Wind Nebulae*
S. J. Tanaka,
Proceedings of IAU Symposium 291, Beijing, China, 2012
7. *A Model of the Spectral Evolution of Pulsar Wind Nebulae*
S. J. Tanaka, & F. Takahara,
Proceedings of the 2009 Fermi Symposium, Washington, D.C., 2009

International Conferences

□ 2015

1. *Broadband Emission of Magnetar Wind Nebulae* (Oral)
SNSNR 2015 @ ISAS/JAXA, Japan, Nov. 2015
2. *Broadband Emission of Magnetar Wind Nebulae* (Oral)
TeVPA 2015 @ Kashiwa, Japan, Oct. 2015
3. *Constraint on Pulsar Wind Properties from Induced Compton Scattering: Applications* (Oral)
HEAP 2015 @ KEK, Japan, Oct. 2015
4. *Spectral Deformation by Induced Compton Scattering* (Oral)
The 1st Conference on Laser Energetics -Laser Astrophysics- @ Yokohama, Japan, Apr. 2015

□ 2014

5. *Broadband Emission from Wind Nebulae Powered by Magnetars* (Poster)
Fifth International Fermi Symposium @ Nagoya, Japan, Oct. 2014
6. *Spectral Model of Wind Nebulae Powered by Magnetar* (Poster)
40th COSPAR Scientific Assembly 2014 @ Moscow, Russia, Aug. 2014
7. *Constraint on Pulsar Wind Properties from Induced Compton Scattering off Radio Pulses* (Poster)
Physics of Neutron Stars 2014 @ Saint-Petersburg, Russia, Jul. 2014
8. *Constraint on Pulsar Wind Properties from Induced Compton Scattering off Radio Pulses* (Oral)
The Structure and Signals of Neutron Stars, from Birth to Death @ Florence, Italy, Mar. 2014
9. *High Energy Emission from Spherical Pulsar Wind Nebulae* (Poster)
Suzaku-Maxi 2014 Expanding the Frontiers of the X-ray Universe @ Ehime University, Japan, Feb. 2014

□ 2013

10. *Broadband Emission Model of Spherical Pulsar Wind Nebulae* (Oral)
X-raying the Gamma-ray Universe –CTA-X-ray rink meeting– @ Hakone, Kanagawa, Japan, Nov. 2013
11. *Broadband Emission Structure of Pulsar Wind Nebulae* (Poster)
ICRC2013 @ Rio de Janeiro, Brazil, Jul. 2013
12. *Spectral and Spatial Study of Pulsar Wind Nebulae (Invited Talk)*
International Winter School on the Interstellar Medium and high Energy Phenomena 2013 @ Ise-Shima, Mie, Japan, Mar. 2013
13. *Constraint on Pulsar Wind Properties Using Induced Compton Scattering by Relativistically Moving Cold Plasma* (Poster)
International Winter School on the Interstellar Medium and high Energy Phenomena 2013 @ Ise-Shima, Mie, Japan, Mar. 2013

□ 2012

14. *Model of Radio Emission from Spherically Symmetric Pulsar Wind Nebulae* (Poster)
IAU General Assembly XXVIII @ Beijing, China, Aug. 2012

15. *Model of Radio Emission from Spherically Symmetric Pulsar Wind Nebulae* (Oral)
39th COSPAR Scientific Assembly @ Mysore, India, Jul. 2012
 16. *Model of Radio Emission from Spherically Symmetric Pulsar Wind Nebulae* (Oral)
Electromagnetic Radiation from Pulsars and Magnetars @ Zielona Góra, Poland, Apr. 2012
- **2011**
17. *Gamma-ray Emission from Young Pulsar Wind Nebulae* (Oral)
High Energy Astroparticle Physics 2011 @ Tsukuba, Japan, Nov. 2011
 18. *Study of Young Pulsar Wind Nebulae and Their Pulsars with a Spectral Evolution Model* (Oral)
Physics of Neutron Stars 2011 @ Saint-Petersburg, Russia, Jul. 2011
- **2010**
19. *Study of Young TeV Pulsar Wind Nebulae with a Spectral Evolution Model* (Oral)
38th COSPAR Scientific Assembly 2010 @ Bremen, Germany, Jul. 2010
 20. *Study of Young TeV Pulsar Wind Nebulae with a Spectral Evolution Model* (Poster)
International Winter School on the Interstellar Medium 2010 @ Ise-Shima, Mie, Japan, Feb. 2010
 21. *A Spectral Evolution of Young TeV Pulsar Wind Nebulae* (Poster)
Exploering Supernova Remnants and Pulsar Wind Nebulae in X-rays: before and after ASTRO-H @ ISAS/JAXA, Japan, Feb. 2010
- **2009**
22. *A Model of the Spectral Evolution of Pulsar Wind Nebulae* (Poster)
International School Particle Acceleration in the Universe @ Nagoya Japan, Nov. 2009
 23. *A Model of the Spectral Evolution of Pulsar Wind Nebulae* (Poster)
2009 Fermi Symposium @ Washington D.C. USA, Nov. 2009