

Publication List

Hsiang-Kuang Chang, January 2018

A. Journal papers

73. THE DISTANCE MEASUREMENTS OF SNRS G15.9+0.2 AND G16.7+0.1
M.F. Zhang, W.W. Tian, H.Zhu, **H.-K.Chang**
Astrophysical Journal, submitted (2018)
72. Understanding Accretion Flow Properties of a Few Black Hole Candidates After Implementation of the TCAF Solution in XSPEC
Dipak Debnath, Sandip K. Chakrabarti, Santanu Mondal, Arghajit Jana, Debjit Chatterjee, Aslam AliMolla, Shreeram Nagarkoti, Ayan Bhattacharjee, Anubhav Banerjee, Indrani Banerjee, Jie-Rou Shang & **Hsiang-Kuang Chang**
Journal of Astronomy and Astrophysics, submitted (2018)
71. Chandra Observation of PWN G16.73+0.08 in SNR G16.7+0.1
H.-K. Chang, S.-F. Chung, C.-Y. Yang and W. W. Tian
Monthly Notices of the Royal Astronomical Society, 474, 2607 (2018)
70. Maximum Likelihood Compton Polarimetry with the Compton Spectrometer and Imager
A.W. Lowell, S.E Boggs, C.L. Chiu, C.A. Kierans, C. Sleator, J.A. Tomsick, A.C. Zoglauer, **H.-K. Chang**, C.-H. Tseng, C.-Y. Yang, P. Jean, P. von Ballmoos, C.-H. Lin, and M. Amman
Astrophysical Journal, 848, 120 (2017)
69. Polarimetric Analysis of the Long Duration Gamma-Ray Burst GRB 160530A With the Balloon Borne Compton Spectrometer and Imager
A.W. Lowell, S.E Boggs, C.L. Chiu, C.A. Kierans, C. Sleator, J.A. Tomsick, A.C. Zoglauer, **H.-K. Chang**, C.-H. Tseng, C.-Y. Yang, P. Jean, P. von Ballmoos, C.-H. Lin, and M. Amman
Astrophysical Journal, 848, 119 (2017)
68. Enhanced gamma radiation toward the rotation axis from the immediate vicinity of extremely rotating black holes
Yoogeun Song, Hung-Yi Pu, Kouichi Hirotani, Satoki Matsushita, Albert K. H. Kong, and **Hsiang-Kuang Chang**
Monthly Notices of the Royal Astronomical Society Letters, 471, L135 (2017)
67. Searching for High-energy, Horizon-scale Emissions from Galactic Black Hole Transients during Quiescence
Lupin Chun-Che Lin, Hung-Yi Pu, Kouichi Hirotani, Albert K. H Kong, Satoki Matsushita, **Hsiang-Kuang Chang**, Makoto Inoue, and Pak-Hin T. Tam
Astrophysical Journal, 845, 40 (2017)

66. Lepton acceleration in the vicinity of the event horizon: Very-high-energy emissions from super-massive black holes
Hirotani, Kouichi; Pu, Hung-Yi; Chun-Che Lin, Lupin; Kong, Albert K. H.; Matsushita, Satoki; Asada, Keiichi; **Chang, Hsiang-Kuang**; Tam, Pak-Hin T.
Astrophysical Journal, 845, 77 (2017)
65. Lepton acceleration in the vicinity of the event horizon: High-energy and Very-high-energy emissions from rotating black holes with various masses
Kouichi Hirotani, Hung-Yi Pu, Lupin Chun-Che Lin, **Hsiang-Kuang Chang**, Makoto Inoue, Albert K. H. Kong, Satoki Matsushita, and Pak-Hin T. Tam
Astrophysical Journal, 833, 142 (2016)
64. Upper limits to the number of Oort Cloud Objects based on serendipitous occultation events search in X-rays
Hsiang-Kuang Chang, Chih-Yuan Liu, and Jie-Rou Shang
Monthly Notices of the Royal Astronomical Society, 462, 1952 (2016)
63. Effects of turbulent viscosity on a rotating gas ring around a black hole: Results of numerical simulations
K. Giri, **H.-K. Chang**
Astronomische Nachrichten, 336, 1005 (2015)
62. The upcoming balloon campaign of the Compton Spectrometer and Imager (COSI)
J.-L. Chiu, S.E. Boggs, **H.-K. Chang**, J.A. Tomsick, A. Zoglauer, M. Amman, Y.-H. Chang, Y. Chou, P. Jean, C. Kierans, C.-H. Lin, A. Lowell, J.-R. Shang, C.-H. Tseng, P. von Ballmoos, C.-Y. Yang
Nuclear Instruments and Methods in Physics Research A, 784, 359 (2015)
61. Search for sub-kilometre trans-Neptunian objects using *CoRoT* asteroseismology data
Chih-Yuan Liu, Alain Doressoundiram, Françoise Roques, **Hsiang-Kuang Chang**, Lucie Maquet and Michel Auvergne
Monthly Notices of the Royal Astronomical Society, 446, 932 (2015)
60. Orbital motion and quasi-quantized disk around rotating neutron stars
Joan Jing Wang, **Hsiang-Kuang Chang**
International Journal of Modern Physics D, 23, 1450053 (2014)
59. Search for p-mode oscillations in RX J2117.1+3412
H.-K. Chang, I.-C. Shih, C.-Y. Liu, T. Fan, Y.-S. Wu, F. Roques, A. Doressoundiram, A. Fernandez, B. Christophe, and F. Dauny
Astronomy and Astrophysics, 558, A63 (2013)
58. Search for serendipitous TNO occultation in X-rays
Hsiang-Kuang Chang, Chih-Yuan Liu, Kuan-Ting Chen
Monthly Notices of the Royal Astronomical Society, 429, 1626 (2013)

57. Retrograde wind accretion -- an alternative mechanism for long spin periods of SFXTs (Corrigendum)
Jing Wang, **Hsiang-Kuang Chang**
Astronomy and Astrophysics, 549, C4 (2013)
56. On Spin Dependence of Relativistic Acoustic Geometry
Pu, Hung-Yi; Maiti, Ishita; Das, Tapas Kumar; **Chang, Hsiang-Kuang**
Classical and Quantum Gravity, 29, 245020 (2012)
55. Energy dependence of NBO in Scorpius X-1
Jing Wang, **Hsiang-Kuang Chang**, Chih-Yuan Liu
Astronomy and Astrophysics, 547, A74 (2012)
54. Retrograde wind accretion -- an alternative mechanism for long spin periods of SFXTs
Jing Wang, **Hsiang-Kuang Chang**
Astronomy and Astrophysics, 547, A27 (2012)
53. Launching and Quenching of Black Hole Relativistic Jets at Low Accretion Rate
Hung-Yi Pu, Kouichi Hirotani, **Hsiang-Kuang Chang**
Astrophysical Journal, 758, 113 (2012)
52. Investigation of CTA 1 with Suzaku Observation
Lupin C. C. Lin¹, Jumpei Takata, Albert K. H. Kong, C. Y. Hui, Teruaki Enoto, **H. K. Chang**, Regina H. H. Huang, J. S. Liang, Shinpei Shibata and C. Y. Hwang
Monthly Notices of the Royal Astronomical Society, 426, 2283 (2012)
51. Morphological analysis on the coherence of kHz QPOs
J. Wang, **H.K. Chang**, C.M. Zhang, D.H. Wang, L. Chen, J.L. Qu, L.M. Song
Astrophysics and Space Science, 342, 357 (2012)
50. Testing the Accretion-induced Field-decay and Spin-up Model for Recycled Pulsars
J. Wang, C. M. Zhang, **H.-K. Chang**
Astronomy and Astrophysics, 540, A100 (2012)
49. Statistical analysis for the Q-factor of twin kHz QPOs
J. Wang, **H.-K. Chang**, C.M. Zhang, D.H. Wang, L. Chen
Astronomische Nachrichten, 333, 274 (2012)
48. Detection and imaging of the Crab nebula with the Nuclear Compton Telescope
M. S. Bandstra, E. C. Bellm, S. E. Boggs, D. Perez-Becker, A. Zoglauer, **H.-K. Chang**, J.-L. Chiu, J.-S. Liang, Y.-H. Chang, Z.-K. Liu, W.-C. Hung, M.-H. A. Huang, S. J. Chiang, R.-S. Run, C.-H. Lin, M. Amman, P. N. Luke, P. Jean, C. B. Wunderer
Astrophysical Journal, 738, 8 (2011)
47. Millisecond dips in the 2007-09 RXTE/PCA lightcurve of Sco X-1 and one possible

occultation event

H.-K. Chang, C.-Y. Liu, K.-T. Chen

Monthly Notices of the Royal Astronomical Society, 411, 427 (2011)

46. Alfvén seismic vibrations of crustal solid-state plasma in quaking paramagnetic neutron star

Bastrukov, S.; Molodtsova, I.; Takata, J.; **Chang, H.-K.**; Xu, R.-X.

Physics of Plasmas, 17, 112114 (2010)

45. Alfvén node-free vibrations of white dwarf in the model of solid star with toroidal magnetic field

I. Molodtsova, S. I. Bastrukov, K.-T. Chen, **H.-K. Chang**

Astrophysics and Space Science, 327, 1 (2010)

44. Self-gravitating astrophysical mass with singular central density vibrating in fundamental mode

S. I. Bastrukov, **H.-K. Chang**, E.-H. Wu, I. V. Molodtsova

Modern Physics Letters A, 24, 3257 (2009)

43. Neptune migration models with one extra-planet

L.-W. Yeh, **H.-K. Chang**

Icarus, 204, 330 (2009)

42. Frequency spectrum of toroidal Alfvén mode in a neutron star with Ferraro's form of nonhomogeneous poloidal magnetic field

S. I. Bastrukov, **H.-K. Chang**, I. V. Molodtsova, E.-H. Wu, G.-T. Chen, S.-H. Lan

Astrophysics and Space Science, 323, 235 (2009)

41. Surface optical response of the core-shell structured nanoparticle

Bastrukov S.I., Lai P.-Y., I.V. Molodtsova, **H.-K. Chang**, D.V. Podgainy:

Surface Review and Letters, 16, 5 (2009)

40. The Data Readout System of the Nuclear Compton Telescope (NCT)

Wei-Che Hung, Yuan-Hann Chang, Chih-Hsun Lin, Steven E. Boggs, **Hsiang-Kuang**

Chang, Mark S. Bandstra, Eric C. Bellm, Jeng-Lun Chiu, Jau-Shian Liang, Zong-Kai Liu, Daniel Perez-Becker, Cornelia B. Wunderer, Andreas Zoglauer, Ming-Huey Huang, Mark Amman, and Paul N. Luke

IEEE Transactions on Nuclear Science, 56, 2303 (2009)

39. Overview of the Nuclear Compton Telescope

E. C. Bellm, S. E. Boggs, M. S. Bandstra, J. D. Bowen, D. Perez-Becker, C. B. Wunderer, A. Zoglauer, M. Amman, P. N. Luke, **H.-K. Chang**, J.-L. Chiu, J.-S. Liang, Y.-H. Chang, Z.-K. Liu, W.-C. Hung, C.-H. Lin, M. A. Huang, P. Jean

IEEE Transactions on Nuclear Science, 56, 1250 (2009)

38. Characterizing and Correcting the Cross-Talk Effect on Depth Measurement in the NCT

Detectors

- Z.-K. Liu, Y.-H. Chang, S. E. Boggs, M. S. Bandstra, E. C. Bellm, J. D. Bowen, D. Perez-Becker, C. B. Wunderer, A. Zoglauer, M. Amman, P. N. Luke, **H.-K. Chang**, J.-L. Chiu, J.-S. Liang, C.-H. Lin, W.-C. Hung
IEEE Transactions on Nuclear Science, 56, 1210 (2009)
37. Non-thermal emissions from outer magnetospheric accelerators of middle-aged pulsars
J. Takata, **H.-K. Chang**
Monthly Notices of the Royal Astronomical Society, 392, 400 (2009)
36. Torsional Nodeless Vibrations of Quaking Neutron Star Restored by Combined Forces of Shear Elastic and Magnetic Field Stresses
S. I. Bastrukov, G.-T. Chen, **H.-K. Chang**, I. V. Molodtsova, D. V. Podgainy
Astrophysical Journal, 690, 998 (2009)
35. Millisecond Dip Events in the 2007 RXTE/PCA Data of Sco X-1 and the TNO size distribution
C.-Y. Liu, **H.-K. Chang**, J.-S. Liang, S.-K. King
Monthly Notices of the Royal Astronomical Society (Letters), 388, L44 (2008)
34. Elasticity of nuclear medium as a principal macrodynamical promoter of electric pygmy dipole moment
S. Bastrukov, I. Molodtsova, D. Podgainy, S. Misticu, **H.-K. Chang**
Physics Letters B, 664, 258 (2008)
33. Periodicity Search of Possible X-ray Counterparts to Radio-quiet Gamma-ray Pulsar Candidates
L. C.-C. Lin, **H.-K. Chang**
Monthly Notices of the Royal Astronomical Society, 387, 729 (2008)
32. Eigenfrequency of nodeless elastic vibrations locked in the crust of quaking neutron stars
S. Bastrukov, **H.-K. Chang**, G.-T. Chen, I. Molodtsova
Modern Physics Letters A, 23, 477 (2008)
31. Particle Acceleration and Non-thermal Emission in Pulsar Outer Magnetospheric Gaps
J. Takata, **H.-K. Chang**, S. Shibata
Monthly Notices of the Royal Astronomical Society, 386, 748 (2008)
30. Pulse Profiles, Spectra and Polarization Characteristics of Non-thermal Emissions from the Crab-like Pulsars
J. Takata, **H.-K. Chang**
Astrophysical Journal, 670, 677 (2007)
29. Torsional shear oscillations in the neutron star crust driven by restoring force of elastic stresses
S. Bastrukov, **H.-K. Chang**, J. Takata, G.-T. Chen, I. Molodtsova

- Monthly Notices of the Royal Astronomical Society*, 382, 849 (2007)
28. The Phase-resolved High Energy Spectrum of the Crab Pulsar
J. J. Jia, A. P. S. Tang, J. Takata, **H.-K. Chang**, K. S. Cheng
Advances in Space Research, 40, 1425 (2007)
 27. The Nuclear Compton Telescope (NCT) project – Scientific Goals and Expected Sensitivity
H.-K. Chang, S. Boggs, Y.-H. Chang
Advances in Space Research, 40, 1281 (2007)
 26. Spheroidal and Torsional Modes of Quasistatic Shear Oscillations in the Solid Globe Models of Nuclear Physics and Pulsar Astrophysics
S. Bastrukov, **H.-K. Chang**, S. Misicu, I. Molodtsova, D. Podgainy
International Journal of Modern Physics A, 22, 3261 (2007)
 25. Millisecond Dips in the RXTE/PCA Light Curve of Sco X-1 and TNO Occultations
H.-K. Chang, J.-S. Liang, C.-Y. Liu, S.-K. King
Monthly Notices of the Royal Astronomical Society, 378, 1287 (2007)
 24. The Applications of the MHD Alfvén Wave Model for kHz Quasi-periodic Oscillations
C.M. Zhang, H. X. Yin, Y. H. Zhao, **H.-K. Chang**, L.M. Song
Astronomische Nachrichten, 328, 491 (2007)
 23. Polarization of High-Energy Emissions from the Crab Pulsar
J. Takata, **H.-K. Chang**, K. S. Cheng
Astrophysical Journal, 656, 1044 (2007)
 22. Measuring Neutron Star Mass and Radius with Three Mass-Radius Relations
C.M. Zhang, H. X. Yin, Y. Kojima, **H.-K. Chang**, R.X. Xu, X.D. Li, B. Zhang, B. Kiziltan
Monthly Notices of the Royal Astronomical Society, 374, 232 (2007)
 21. Occultation of X-rays from Scorpius X-1 by Small Trans-Neptunian Objects
H.-K. Chang, S.-K. King, J.-S. Liang, P.-S. Wu, L. C.-C. Lin, C.-J. Chiu
Nature, 442, 660 (2006)
 20. A Two-dimensional Electrodynamical Outer Gap Model for Gamma Ray Pulsars: Gamma-ray Spectrum
J. Takata, S. Shibata, K. Hirotani, **H.-K. Chang**
Monthly Notices of the Royal Astronomical Society, 366, 1310 (2006)
 19. Periodicity Search in the X-ray Data of RX J0007.0+7302
L. C.-C. Lin, **H.-K. Chang**
Astrophysics and Space Science, 297, 361 (2005)
 18. Thermal Flux Fractions of Anomalous X-ray Pulsars RX J170849-400910 and 4U 0142+61

H.-K. Chang

Chinese Journal of Physics, 42, 135 (2004)

17. Electrostatic Corrections to the Equation of State for a Fully Ionized Hydrogen Atmosphere of Magnetic Neutron Stars

H.-K. Chang

Chinese Journal of Physics, 40, 395 (2002)

16. Determining the Magnetic Inclination of PSR B0656+14 from its Thermal X-ray Emission

H.-K. Chang

Chinese Journal of Physics, 39, 319 (2001)

15. X-ray Timing Analysis of PSR B1951+32 with ASCA and RXTE Data

H.-K. Chang, T.-F. Guo

Chinese Journal of Physics, 38, 429 (2000)

14. A Study of Sunspots with Phase Time and Travel Time of P-mode Waves in Acoustic Imaging

D.-Y. Chou, M.-T. Sun, **H.-K. Chang**

Astrophysical Journal, 532, 622 (2000)

13. In Search of Emerging Flux underneath the Solar Surface with Acoustic Imaging

H.-K. Chang, D.-Y. Chou, M.-T. Sun

Astrophysical Journal (Letters), 526, L53 (1999)

12. Determining Emission Location and Mechanisms of High Energy Emission from Pulsars -- the Role of INTEGRAL

H.-K. Chang, T. Guo, M.-C. Liang, C. Ho

Astrophysical Letters and Communications, 38, 53 (1999)

11. Acoustic Imaging in Helioseismology

D.-Y. Chou, **H.-K. Chang**, M.-T. Sun, B. LaBonte, H.-R. Chen, S.-J. Yeh, the TON team

Astrophysical Journal, 514, 979 (1999)

10. Rossi X-ray Timing Explorer Observation of PSR B0656+14

H.-K. Chang, C. Ho

Astrophysical Journal, 510, 404 (1999)

9. Probing Solar Active Regions with the Phase Information of Acoustic Imaging

H.-R. Chen, D.-Y. Chou, **H.-K. Chang**, M.-T. Sun, S.-J. Yeh, B. LaBonte, the TON team

Astrophysical Journal (Letters), 501, L139 (1998)

8. Ambient Acoustic Imaging in Helioseismology

H.-K. Chang, D.-Y. Chou, B. LaBonte, the TON team

Nature, 389, 825 (1997)

7. RXTE Observation of PSR B1951+32
H.-K. Chang, C. Ho
Astrophysical Journal (Letters), 479, L125 (1997)
6. Optical Pulse Polarization of the Crab Pulsar
K. Chen, **H.-K. Chang**, C. Ho
Astrophysical Journal, 471, 967 (1996)
5. The Soft Spectrum of PSR B1509-58
H.-K. Chang, K. Chen, C. Ho
Astronomy and Astrophysics Supplement, 120, C81 (1996)
4. Magnetic Inverse Compton Scattering above Polar Caps
H.-K. Chang
Astronomy and Astrophysics, 301, 456 (1995)
3. Pulsar Radio Emission
H.-K. Chang, W. Kundt
Astrophysics and Space Science, 209, 313 (1993)
2. Gamma-Ray Bursts from Nearby Neutron Stars
W. Kundt, **H.-K. Chang**
Astrophysics and Space Science, 200, 151 (1993)
1. Pulsar Nebulae
W. Kundt, **H.-K. Chang**
Astrophysics and Space Science, 193, 145 (1992)

B. Proceeding papers

43. Search for sub-kilometre trans-Neptunian objects using all CoRoT AN1 Light-curves
Liu, C.-Y., Doressoundiram, A., Roques, F., Chang, H.-K., Chaintreuil, S.
European Planetary Science Congress 2017, held 17-22 September, 2017 in Riga Latvia, id.
EPSC2017-237 (09/2017)
42. The Compton Spectrometer and Imager (COSI)
J.L. Chiu, S. E. Boggs, C. A. Kierans, A. Lowell, C. Sleator, J. A. Tomsick, A. Zoglauer, M.
Amman, **H.K. Chang**, C.Y. Chu, C.H. Tseng, C.Y. Yang, C.h. Lin, P. Jean, P. von Ballmoos
Proceeding of the 35th International Cosmic Ray Conference - ICRC2017, Busan, Korea,
12-20 July 2017, [PoS\(ICRC2017\)796](#) (07/2017)
41. The Compton Spectrometer and Imager: Results from the 2016 Super-Pressure Balloon
Campaign
Lowell, Alexander; Boggs, Steven; Chiu, Jeng-Lun; Kierans, Carolyn; Sleator, Clio;
Tomsick, John; Zoglauer, Andreas; Amman, Mark; **Chang, Hsiang-Kuang**;

Tseng, Chao-Hsiung; Yang, Chien-Ying; Lin, Chih H.; Jean, Pierre; von Ballmoos, Peter
American Astronomical Society, HEAD meeting #16, id.103.12 (08/2017)

40. Spectral analysis of the Crab Nebula and GRB 160530A with the Compton Spectrometer and Imager

Sleator, Clio; Boggs, Steven E.; Chiu, Jeng-Lun; Kierans, Carolyn; Lowell, Alexander; Tomsick, John; Zoglauer, Andreas; Amman, Mark; **Chang, Hsiang-Kuang**;
Tseng, Chao-Hsiung; Yang, Chien-Ying; Lin, Chih H.; Jean, Pierre; von Ballmoos, Peter
American Astronomical Society, HEAD meeting #16, id.304.03 (08/2017)

39. The 2016 Super Pressure Balloon flight of the Compton Spectrometer and Imager

Carolyn A. Kierans, Steven E. Boggs, Jeng-Lun Chiu, Alex Lowell, Clio C. Sleator, John A. Tomsick, Andreas Zoglauer, Mark Amman, **Hsiang-Kuang Chang**, Chao-Hsiung Tseng, Chien-Ying Yang, Chih-Hsun Lin, Pierre Jean, Peter von Ballmoos
11th INTEGRAL Conference Gamma-Ray Astrophysics in Multi-Wavelength Perspective, 10-14 October 2016, Amsterdam, The Netherlands (arXiv:1701.05558)

38. Benchmarking COSI's detector effects engine

Clio C. Sleator_, Steven E. Boggs, Jeng-Lun Chiu, Carolyn A. Kierans, Alex Lowell, John A. Tomsick, Andreas Zoglauer, Mark Amman, **Hsiang-Kuang Chang**, Chao-Hsiung Tseng, Chien-Ying Yang, Chih-Hsun Lin, Pierre Jean, Peter von Ballmoos
11th INTEGRAL Conference Gamma-Ray Astrophysics in Multi-Wavelength Perspective, 10-14 October 2016, Amsterdam, The Netherlands (arXiv:1701.05563)

37. Positional calibrations of the germanium double sided strip detectors for the Compton spectrometer and imager

A. Lowell ; S. Boggs ; J. L. Chiu ; C. Kierans ; S. McBride ; C. H. Tseng ; A. Zoglauer ; M. Amman ; **H. K. Chang** ; P. Jean ; C. H. Lin ; C. Sleator ; J. Tomsick ; P. von Ballmoos and C. Y. Yang
Proc. SPIE 9915, High Energy, Optical, and Infrared Detectors for Astronomy VII, 99152H (August 1, 2016); doi:10.1117/12.2233145; <http://dx.doi.org/10.1117/12.2233145>

36. Calibration of the Compton Spectrometer and Imager in preparation for the 2014 balloon campaign

C. A. Kierans ; S. E. Boggs ; A. Lowell ; J. Tomsick ; A. Zoglauer ; M. Amman ; J.-L. Chiu ; **H.-K. Chang** ; C.-H. Lin ; P. Jean ; P. von Ballmoos ; C.-Y. Yang ; J.-R. Shang ; C.-H. Tseng ; Y. Chou ; Y.-H. Chang
Proceedings of the SPIE, Volume 9144, id. 91443M 16 pp. (2014)

35. COSI: The Compton Spectrometer and Imager Science Program

Tomsick, John; Jean, Pierre; **Chang, Hsiang-Kuang**; Boggs, Steven; Zoglauer, A.; Von Ballmoos, Peter; Amman, Mark; Chiu, Jeng-Lun; Chang, Yuan-Hann.; Chou, Yi; Kierans, Carolyn; Lin, Chih-Hsun.; Lowell, Alex; Shang, Jie-Rou.; Tseng, Chao-Hsiung; Yang, Chien-Ying
40th COSPAR Scientific Assembly. Held 2-10 August 2014, in Moscow, Russia, Abstract PSB.1-14-14. (2014)

34. Development of the Astronomy-Themed Interdisciplinary Curriculum At Taipei First Girls' High School
Yang, S.-C.; Jin, R.; Lai, S.-P.; Kong, A.; **Chang, H.-K.**; Wu, P.-H.
ASP Conference Series, Vol. 483, p.395 (2014)
(Proceedings of a conference held 20-24 July 2013 at San Jose State University, San Jose, California, USA. Edited by James G. Manning, Mary Kay Hemenway, Joseph B. Jensen, and Michael G. Gibbs. San Francisco: Astronomical Society of the Pacific)
33. Probing The Outer Solar System Small Bodies With Stellar Occultations
Maquet, Lucie; Roques, F.; Doressoundiram, A.; Liu, C.; **Chang, H.**; Chun, S. I.
SF2A-2013: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics. Eds.: L. Cambresy, F. Martins, E. Nuss, A. Palacios, pp.19-22 (2013)
32. Probing The Outer Solar System Small Bodies With Stellar Occultations
Maquet, Lucie; Roques, F.; Doressoundiram, A.; Liu, C.; **Chang, H.**; Chun, S. I.
American Astronomical Society, DPS meeting #45, #414.09 (2013)
31. Performance, Goals, and Status of the Upcoming Nuclear Compton Telescope Balloon Campaigns
Lowell, Alexander; Barriere, N.; Boggs, S. E.; Tomsick, J.; von Doetinchem, P.; Zoglauer, A.; Amman, M.; Luke, P.; Jean, P.; von Ballmoos, P.; **Chang, H.**; Chiu, J.; Yang, C.; Shang, J.; Lin, C. H.; Chou, Y.; Chang, Y. H.
American Astronomical Society, HEAD meeting #13, #123.06 (2013)
30. Links between Z sources and Atoll sources
J. Wang, **H.-K. Chang**
Proceedings of IAUS 290 "Feeding Compact Objects: Accretion on All Scales", C. M. Zhang, T. Belloni, M. Mendez & S. N. Zhang (eds.), p.331 (2013)
29. Prospects for the 2014/2015 Nuclear Compton Telescope balloon campaign
Lowell, A.; Boggs, S.; Zoglauer, A.; Barriere, N.; Amman, M.; Luke, P.; von Ballmoos, P.; Jean, P.; **Chang, H.-K.**; Chiu, J.-L.; Liang, J.-S.
Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray. Proceedings of the SPIE, Volume 8443, id. 84434U-84434U-8 (2012).
28. The Search for Trans-Neptunian Stellar Occultations Through 2 Years with MIOSOTYS
Doressoundiram, A.; Liu, C.-Y.; Roques, F.; **Chang, H.-K.**; Shih, I. C.; Dauny, F.; Fernandez, A.; Christophe, B.
Asteroids, Comets, Meteors 2012, Proceedings of the conference held May 16-20, 2012 in Niigata, Japan. LPI Contribution No. 1667, id.6036 (2012)
27. Miosotys, a new instrument to search for trans-Neptunian stellar occultations
Doressoundiram A., Liu C-Y, Roques F., **Chang H-K**, Shih I Chun, Dauny F., Boissel Y.
Miosotys Team
EPSC-DPS Joint Meeting 2011, held 2-7 October 2011 in Nantes, France.

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26. Search For Small Trans-Neptunian Objects Using COROT Asteroseismology Lightcurves
Chih-Yuan Liu, Alain Doressoundiram, Françoise Roques, Michel Auvergne,
Hsiang-Kuang Chang
EPSC-DPS Joint Meeting 2011, held 2-7 October 2011 in Nantes, France
<http://meetings.copernicus.org/epsc-dps2011>, p.614 (2011)
25. The Search for Trans-Neptunian Stellar Occultations with MIOSOTYS
Doressoundiram, A.; Roques, F.; **Chang, H.-K.**; Boissel, Y.; Shih, I. C.; Dauny, F.;
Liu, C.-Y.; Miosotys Team
42nd Lunar and Planetary Science Conference, held March 7–11, 2011 at The Woodlands,
Texas, LPI Contribution No. 1608, id.1669 (2011)
24. Introduction to MIOSOTYS: a multiple-object, high-speed photometer
I Chun Shih, Alain Doressoundiram, Yannick Boissel, Françoise Roques, Frederic Dauny,
Paul Felenbok, Andree Fernandez, Jean Guerin, **Hsiang-Kuang Chang**, Chih-Yuan Liu
Ground-based and Airborne Instrumentation for Astronomy III. Edited by McLean, Ian S.;
Ramsay, Suzanne K.; Takami, Hideki. Proceedings of the SPIE, Volume 7735, pp.
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