

Program

May 17 (Wed)

08:30–09:20 Registration and continental breakfast at the workshop venue

09:20–09:30 Opening ceremony

Morning **Particle acceleration**

Chair: Yang

09:30–10:10 SNRs and the origin of Galactic CRs [P. L. Biermann](#)

10:10–10:50 Observational evidences of particle acceleration at SNRs [A. Bamba](#)

10:50–11:10 Coffee break

Chair: Cao

11:10–11:50 Diffusive shock acceleration theory [H. Kang](#)

11:50–12:30 Observational evidences of CR acceleration at shocks [C. M. Ko](#)

12:30–12:40 Group Photo

12:40–14:00 Lunch

Afternoon **Astrophysical sources of high energy CRs**

Chair: Sagawa

14:00–14:40 AGNs and related issues [M. S. Longair](#)

14:40–15:20 Galactic nuclei: jets and other outflows [Gopal-Krishina](#)

15:20–16:00 Photons and neutrinos originating from accelerated protons in GRBs [K. Asano](#)

16:00–16:20 Coffee break

Chair: Tonwar

16:20–17:00 Spectrum, composition, arrival direction of UHECRs [T. W. Jones](#)

17:00–17:20 Discovery of a narrow shock precursor in the Tycho SNR: A CR precursor? [J. Lee](#)

17:20–17:40 Abstract presentation for poster papers

Evening

19:00 – Workshop dinner

May 18 (Thur)

08:30–09:00 Continental breakfast at the workshop venue

Morning CRs in large scale structure of the universe

Chair: Biermann

09:00–09:40 Origins of UHECRs [T. W. Jones](#)

09:40–10:20 Top-down models for UHECRs [H. B. Kim](#)

10:20–11:00 Shock waves in the large scale structure of the universe and CRs accelerated [D. Ryu](#)

11:00–11:20 Coffee break

Chair: Teshima

11:20–12:00 High energy radiation and CRs from clusters of galaxies [S. Inoue](#)

12:00–12:40 CR acceleration at clusters of galaxies [C. Y. Hwang](#)

12:40–14:00 Lunch

Afternoon Interaction and propagation of UHECRs

Chair: Kang

14:00–14:40 Diffusive propagation of UHECRs [V. Berezhinsky](#)

14:40–15:20 Magnetic fields and propagation of UHECRs in the local universe [K. Dolag](#)

15:20–16:00 Propagation and acceleration of high energy CRs [J. Cho](#)

16:00–16:20 Coffee break

Chair: Ko

16:20–17:00 Propagation of UHECRs in local magnetic fields [H. Takami](#)

17:00–17:40 Energy spectrum of primary CRs from 10^{15} to 10^{20} eV [M. Teshima](#)

17:40–18:20 Results from HiRes [K. Martens](#)

May 19 (Fri)

08:30–09:00 Continental breakfast at the workshop venue

Morning CR experiments

Chair: Ryu

09:00–09:40 Status of the Telescope Array [H. Sagawa](#)

09:40–10:20 Status of the AUGER [P. L. Biermann](#)

10:20–11:00 JEM/EUSO project to study extreme universe by large and wide-angle telescope [F. Kajino](#)

11:00–11:20 Coffee break

Chair: Gopal-Krishna

11:20–11:40 New results from MAGIC [M. Teshima](#)

11:40–12:20 IceCube: A neutrino telescope at the South Pole [C. Song](#)

12:20–13:00 UHECR and Neutrino Research in China [Z. Cao](#)

13:00–14:20 Lunch

Afternoon CR experiments

Chair: Berezhinsky

14:20–15:00 CR experiments in India [S. Tonwar](#)

15:00–15:40 Research activity of neutrino astrophysics in Taiwan [M. Huang](#)

15:40–16:20 Laboratory astrophysics program in Taiwan [G. Lin](#)

16:20–16:40 Coffee break

Chair: Jones

16:40–17:00 MEMS tracking telescope for EECR Study [I. H. Park](#)

17:00–17:20 COREA experiment [Y. Kwon](#)

17:20–18:20 Review summary and discussion [M. S. Longair](#)

Posters

FLASH_TW status report [T. C. Liu](#)

Stability of cosmic rays and waves system [Y. Y. Lo](#)

Search and characterization of shocks in simulated galaxy clusters [F. Vazza](#)

Space VLBI observations of southern EGRET identifications [K. Wajima](#)