

4th Fermi Asian Network (FAN4) Workshop Program

July 8 Monday

08:10 – Buses depart from Bishop Lei International House

08:30 – 08:55 Registration

08:55 – 09:00 K S CHENG – Introduction

Morning Session (Pulsar I) – Chairman: Patrick SLANE

09:00 – 09:30 Pablo SAZ PARKINSON – Gamma-ray Observations of Pulsars in the Fermi Era
([Presentation File](#))

09:30 – 10:00 Pablo SAZ PARKINSON – The Detection of Gamma-ray Pulsars >10 GeV
([Presentation File](#))

10:00 – 10:30 Roberto MIGNANI – Optical Observations of Pulsars Detected by Fermi

10:30 – 11:00 *Coffee Break*

11:00 – 11:30 Na WANG – Pulsar Observations in Urumqi ([Presentation File](#))

11:30 – 12:00 Chengmin ZHANG – Reviews of Millisecond Pulsars and FAST Telescope
([Presentation File](#))

12:00 – 12:30 Albert KONG – Multi-wavelength Studies of Black Widow-Type Millisecond Pulsars ([Presentation File](#))

12:30–14:00 *Lunch*

Afternoon Session (Gamma-ray Bursts) – Chairman: Pablo SAZ PARKINSON

14:00 – 14:30 Zigao DAI – Millisecond Magnetars: Gamma-ray Bursts, Early Afterglows, and Others ([Presentation File](#))

14:30 – 15:00 Xiangyu WANG – Modelling the High-energy Gamma-ray Emission of Fermi/LAT GRBs

15:00 – 15:30 Xuefeng WU – Photosphere Emission in Gamma-Ray Bursts ([Presentation File](#))

15:30 – 16:00 *Coffee Break*

16:00 – 16:30 Yuanchuan ZOU – Light Curve Properties of the Gamma-ray Bursts ([Presentation File](#))

16:30 – 17:00 Yunwei YU – Gravitational Wave Radiation from Neutron Stars at the Center of Gamma-ray Bursts

17:00 – 17:30 Thomas TAM – Revealing an Extra Hard Spectral Component from the Very Bright and Nearby GRB130427A ([Presentation File](#))

17:30 – 17:50 Hoi Fung YU – Gamma-ray Burst Prompt Emissions: Fermi GBM Time-resolved Spectroscopy ([Presentation File](#))

17:50 – 18:10 Haoning HE – Gamma-ray Burst Multi-messenger Approach – the High Energy Photons, Neutrinos and Cosmic Rays ([Presentation File](#))

18:10 – 18:30 Ruoyu LIU – On GRB's Extended LAT Emission and its Implication for the Circumburst Environment Density ([Presentation File](#))

July 9 Tuesday

8:30 – Buses depart from Bishop Lei International House

Morning Session (Pulsar II) – Chairman: Roberto MIGNANI

- 09:00 – 09:30 David HUI – X-ray Observations of Radio-quiet Gamma-ray Pulsar PSR J2021+4026
- 09:30 – 10:00 Lupin LIN – Pulsed Detection on PSR J2021+4026 ([Presentation File](#))
- 10:00 – 10:30 Tomohide WADA – Axisymmetric Pulsar Magnetosphere with Particle Method III: Dipole and Quadrupole Magnetic Field Case ([Presentation File](#))
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 11:30 Yu WANG – Soft Gamma-ray Pulsars
- 11:30 – 11:50 Eric WU – X-ray and gamma-ray Emission from Globular Clusters ([Presentation File](#))
- 11:50 – 12:20 Junhui FAN – Relativistic Beaming Effect for Fermi Blazars ([Presentation File](#))
- 12:20 – 12:30 Diego TORRES - New Journal Announcement ([Presentation File](#))
- 12:30 – 14:00 *Lunch*

Afternoon Session (AGN/PWN&SNR) – Chairman: Albert KONG

- 14:00 – 14:30 Wenfei YU – X-ray Spectral Monitoring of Bright Microquasars and a Search for their Gamma-ray Emission with Fermi/LAT
- 14:30 – 14:50 Minfeng GU – The Fermi-detected and Non-detected BL Lac Objects ([Presentation File](#))
- 14:50 – 15:10 Fayin WANG – Modeling the X-ray Emission and QPO of Swift J1644+57 ([Presentation File](#))
- 15:10 – 15:30 Yi LIU – The Hurst Exponent of Fermi Blazars
- 15:30 – 16:00 *Coffee Break*
- 16:00 – 16:30 Stephen NG – Pulsar Wind Nebulae at High Energies ([Presentation File](#))
- 16:30 – 17:00 Patrick SLANE – Gamma-ray Observations of Supernova Remnants ([Presentation File](#))
- 17:00 – 17:30 Diego TORRES – Pulsar Wind Nebulae in Gamma-rays: Issues and lessons ([Presentation File](#))
- 17:30 – 17:50 Yongjun CHEN - The Compact Radio Structure of Fermi-detected Radio-loud NLS1s ([Presentation File](#))
- 17:50 – 18:10 Long JI – Type-I Bursts as a Probe to the XRB Corona ([Presentation File](#))

July 10 Wednesday

8:30 – Buses depart from Bishop Lei International House

Morning Session (Gamma-ray Binaries and Transient X-ray Sources) – Chairman: Diego TORRES

- 09:00 – 09:30 Jumpei TAKATA – X-ray, GeV and TeV Emissions from Gamma-ray Binary LS5039 ([Presentation File](#))
- 09:30 – 10:00 Jian LI – Unveiling the Super-orbital Modulation of LS I+ 61 303 in X-rays ([Presentation File](#))
- 10:00 – 10:20 Gene LEUNG – Phase Resolved Properties of Gamma-ray Binary LS5039 ([Presentation File](#))
- 10:20 – 10:50 *Coffee Break*
- 10:50 – 11:10 Jingzhi YAN – Multi-wavelength Study of the Gamma-ray Binary LSI+61 303 ([Presentation File](#))
- 11:10 – 11:40 Biping GONG – Shell Collision Induced Kilo-Hertz Quasi-Periodic Oscillation in X-Ray Binaries
- 11:40 – 12:50 *Lunch*

12:50 – Bus departs from The University of Hong Kong for Workshop Tour

21:00 – Bus returns from tour to Bishop Lei International House

Poster Presentation:

Jinjun GENG – Delayed Energy Injection Model for Afterglow of GRBs ([File](#))

Shujin HOU – Identification and Properties of the Multi-color Blackbody GRB 081221 ([File](#))

Yuanyue PAN – Simulation of the Recycled Neutron Star Evolution ([File](#))

Junjie WEI – The Gamma-Ray Burst Hubble Diagram and its Implications for Cosmology ([File](#))

Phyllis YEN - Optical Observations to Three Fermi Millisecond Pulsars

Jason WU - Search for pulsed gamma-ray emission from globular cluster M28

July 11 (Thursday) and July 12 (Friday)

Data Analysis Training Sessions

July 11

- 09:00 – 10:00 Introduction to Fermi–LAT Data Analysis (Jason WU and Eric WU) ([Presentation File](#))
- 10:00 – 11:00 Introduction to Gamma–ray Pulsar Timing (Pablo SAZ PARKINSON)
- 11:00 – 11:30 *Coffee Break*
- 11:30 – 12:30 Hands-on Session for Basic LAT Data Analysis & Pulsar Timing
- 12:30 – 14:00 *Lunch*
- 14:00 – 15:00 Optical Observational Methods of Gamma-ray Sources (Roberto MIGNANI)
- 15:00 – 17:00 Hands-on Session for Optical Data Analysis

July 12

- 09:00 – 10:00 INTEGRAL/ISGRI Analysis (Jian LI)
- 10:00 – 11:00 GBM Analysis (David YU) ([Presentation File](#) - Updated)
- 11:00 – 11:30 *Coffee Break*
- 11:30 – 12:30 Blind Pulsation Search Technique (Pablo SAZ PARKINSON)

Session Software Required :

Please check the website for detail and download methods