

# **黑洞及其它致密天体物理前沿 2009 年度研讨会**

## **Report of Contributions**

Contribution ID: 4

Type: **Oral Talk**

# Determination of the Intrinsic Velocity Field in M87 Jet

*Saturday, 28 March 2009 16:15 (15 minutes)*

**Primary author:** Dr WANG, Chun-Cheng (University of Science and Technology of China)

**Co-author:** Dr ZHOU, Hong-Yan (University of Science and Technology of China)

**Presenter:** Dr WANG, Chun-Cheng (University of Science and Technology of China)

Contribution ID: 7

Type: **Oral Talk**

## **X-Ray Flares of Gamma-Ray Bursts: Quakes of Solid Quark Stars?**

*Saturday, 28 March 2009 10:35 (15 minutes)*

### **Summary**

To understand the X-ray flares of both long and short GRBs in a solid quark star model, in which starquake plays an essential role.

**Primary author:** Prof. XU, Renxin (Department of Astronomy, School of physics, Peking University)

**Co-author:** Prof. LIANG, Enwei (Department of Physics, Guangxi University)

**Presenter:** Prof. XU, Renxin (Department of Astronomy, School of physics, Peking University)

Contribution ID: 8

Type: **Oral Talk**

## **Kompaneets equation for resonant cyclotron scattering and its application in pulsar magnetosphere**

*Saturday, 28 March 2009 16:45 (25 minutes)*

**Primary author:** Mr HAO, Tong (Department of astronomy, Nanjing University)

**Co-author:** Prof. REN XIN, Xu (Peking University)

**Presenter:** Mr HAO, Tong (Department of astronomy, Nanjing University)

Contribution ID: 9

Type: **Oral Talk**

## **Rotating property of Rotating Radio Transient 1819-1458**

*Saturday, 28 March 2009 16:30 (15 minutes)*

**Primary author:** Dr ESAMDIN, Ali (Urumqi Observatory, BAOs, CAS)

**Presenter:** Dr ESAMDIN, Ali (Urumqi Observatory, BAOs, CAS)

Contribution ID: **10**

Type: **Poster**

## **HXMT User and Science Data Center**

**Primary author:** Mr 周, 建锋 (清华大学天体物理中心)

**Co-authors:** Mr 聂, 建胤 (高能物理所); Mr 杨, 洋 (清华大学天体物理中心)

**Presenter:** Mr 周, 建锋 (清华大学天体物理中心)

Contribution ID: 11

Type: **Oral Talk**

## **The energy dependance and time lags of QPO in GRS 1915+105**

*Saturday, 28 March 2009 10:50 (15 minutes)*

**Primary author:** Mr QU, Jinlu (918-3 beijing)

**Presenter:** Mr QU, Jinlu (918-3 beijing)

Contribution ID: 12

Type: **Oral Talk**

## **The MHD Model of the twin KHz QPOs of the LMXB**

*Saturday, 28 March 2009 11:05 (25 minutes)*

**Primary authors:** Prof. SHI, Changsheng (the astronomy department of Nanjing University); Dr SHI, Changsheng (the astronomy department of Nanjing University)

**Presenter:** Prof. SHI, Changsheng (the astronomy department of Nanjing University)



Contribution ID: 13

Type: **Poster**

# GLOBAL SLIM ACCRETION DISK SOLUTIONS REVISITED

**Primary author:** Mr 焦, 承亮 (XMU)

**Presenter:** Mr 焦, 承亮 (XMU)

Contribution ID: 14

Type: **Oral Talk**

## **X-ray properties of NLS1s with extreme narrow broad line width**

*Friday, 27 March 2009 10:55 (25 minutes)*

**Primary author:** Ms AI, Yanli (Yunnan Astromonical Observatory,)

**Co-author:** Mr YUAN, Weimin (Yunnan Astromonical Observatory)

**Presenter:** Ms AI, Yanli (Yunnan Astromonical Observatory,)

Contribution ID: 15

Type: **Poster**

## **Spatial distribution of luminous X-ray binaries in spiral galaxies**

**Primary author:** Mr ZUO, Zhaoyu (Department of Astronomy, Nanjing University)

**Co-authors:** Mr LIU, Xi-wei (Department of Astronomy, Nanjing University); Dr LI, Xiang-dong (Department of Astronomy, Nanjing University)

**Presenter:** Mr ZUO, Zhaoyu (Department of Astronomy, Nanjing University)

Contribution ID: 16

Type: **Oral Talk**

## **Evolving to type Ia supernovae with long delay time**

*Saturday, 28 March 2009 14:15 (15 minutes)*

**Primary author:** Dr CHEN, Wen-Cong (Shangqiu Normal University)

**Presenter:** Dr CHEN, Wen-Cong (Shangqiu Normal University)

Contribution ID: 17

Type: **Oral Talk**

## Global Comptonization in Hot Accretion Flow

*Friday, 27 March 2009 16:55 (25 minutes)*

**Primary author:** Mr FU-GUO, Xie (Shanghai Astronomical Observatory)

**Presenter:** Mr FU-GUO, Xie (Shanghai Astronomical Observatory)

Contribution ID: 18

Type: **Oral Talk**

## **Progress of research on AGN in Urumqi Observatory**

*Friday, 27 March 2009 11:35 (20 minutes)*

**Primary author:** Dr LIU, Xiang (Urumqi Observatory, NAOC)

**Presenter:** Dr LIU, Xiang (Urumqi Observatory, NAOC)

Contribution ID: 19

Type: **Oral Talk**

## 25 Glitches Detected at Nanshan

*Saturday, 28 March 2009 17:10 (25 minutes)*

**Primary authors:** Mr YUAN 袁, Jianping 建平 (Urumuqi Observatory, NAOC); Prof. WANG, Na (Urumuqi Observatory, NAOC)

**Presenter:** Mr YUAN 袁, Jianping 建平 (Urumuqi Observatory, NAOC)

Contribution ID: 20

Type: **Oral Talk**

## The hard X-ray emission from high energy sources

*Friday, 27 March 2009 14:00 (15 minutes)*

### Summary

The hard X-ray observations will allow us to explore the specific properties of the high energy sources. Some open questions like if there exists blue-shifted 511 keV in jet and what is the component of the jet bulk etc. can be well addressed. Any features detected from the newly discovered unknown sources might be regarded as pieces to recover a puzzle of source nature.

**Primary author:** Dr ZHANG, Shu (Institute of High Energy Physics)

**Presenter:** Dr ZHANG, Shu (Institute of High Energy Physics)



Contribution ID: 21

Type: **Oral Talk**

## **Timescale Resolved Spectroscopy of Cyg X-1**

*Saturday, 28 March 2009 14:30 (25 minutes)*

**Primary author:** Mr WU, YuXiang (Tsinghua Univ.)

**Co-authors:** Mr LIU, Hao (IHEP); Mr WANG, Taishan (Tsinghua Univ); Prof. LI, Tipei (Tsinghua Univ. & IHEP); Prof. BELLONI, Tomaso (INAF-Osservatorio Astronomico di Brera)

**Presenter:** Mr WU, YuXiang (Tsinghua Univ.)

Contribution ID: 22

Type: **Oral Talk**

## **Reprocessed emission from warped accretion discs induced by Bardeen-Petterson effect**

*Friday, 27 March 2009 16:25 (15 minutes)*

**Primary author:** WU, shengmiao (Shanghai Astronomical Observatory)

**Presenter:** WU, shengmiao (Shanghai Astronomical Observatory)

Contribution ID: 23

Type: **Oral Talk**

## 吸积盘 Limit Cycle 理论在 GRS 1915 + 105 中的应用

*Friday, 27 March 2009 15:05 (25 minutes)*

**Primary author:** Mr ZHENG(郑), Sheng-Ming(圣明) (Department of Physics, Xiamen University)

**Presenter:** Mr ZHENG(郑), Sheng-Ming(圣明) (Department of Physics, Xiamen University)

Contribution ID: 24

Type: **Oral Talk**

## On state changes of BL Lac objects

*Friday, 27 March 2009 10:40 (15 minutes)*

**Primary author:** ZHANG, You-Hong (Tsinghua University)

**Presenter:** ZHANG, You-Hong (Tsinghua University)

Contribution ID: 26

Type: **Poster**

## **Study the origin of radiation with coupled accretion-jet model**

**Primary author:** Dr ZHANG, Hui (SHAO)

**Presenter:** Dr ZHANG, Hui (SHAO)

Contribution ID: 27

Type: **Poster**

## **Waveform evolution of SGR 1806-20 during its 2004 giant flare**

**Primary authors:** Prof. YU, Wenfei (Shanghai Astronomical Observcatory); Ms XING, Yi (Shanghai Astronomical Observcatory)

**Presenter:** Ms XING, Yi (Shanghai Astronomical Observcatory)

Contribution ID: 29

Type: **Poster**

## Single radio pulse search with Nanshan 25m radio telescope at Urumqi Astronomical Observatory

**Primary authors:** Dr ESAMDIN, Ali (UAO-NAOC); Mr HU, HuiDong (Urumqi Observatory, NAOC)

**Presenter:** Mr HU, HuiDong (Urumqi Observatory, NAOC)

Contribution ID: 30

Type: **Oral Talk**

## **Constraining spins of supermassive black holes from TeV variability. III. variability due to the movement of TeV source around a rotating black hole**

*Saturday, 28 March 2009 08:30 (15 minutes)*

**Primary author:** Prof. YUAN, Ye-Fei (Center for Astrophysics, University of Science and Technology of China)

**Co-authors:** WANG, Jian-Min (Key Laboratory for Particle Astrophysics, Institute of High Energy Physics, CAS); LI, Yan-Rong (Key Laboratory for Particle Astrophysics, Institute of High Energy Physics, CAS); CUI, Yu-Dong (Center for Astrophysics, University of Science and Technology of China)

**Presenter:** Prof. YUAN, Ye-Fei (Center for Astrophysics, University of Science and Technology of China)



Contribution ID: 31

Type: **Oral Talk**

## **A Survey of Spectral State Transitions in Galactic X-ray Binaries with X-ray Monitoring Observations**

*Saturday, 28 March 2009 14:55 (25 minutes)*

**Primary author:** Mr YAN, Zhen (SHAO)

**Co-author:** YU, Wenfei (SHAO)

**Presenter:** Mr YAN, Zhen (SHAO)

Contribution ID: 32

Type: **Oral Talk**

## **Correlation between the kHz QPO Frequency and the X-ray Flux on the Timescales of Band-limited Noise in Neutron Star X-ray Binaries**

*Saturday, 28 March 2009 11:30 (25 minutes)*

**Primary author:** Ms CAO, Xiaofeng (Shanghai Astronomical Observatory Chinese Academy of Sciences / Huazhong Normal University)

**Co-author:** Prof. YU, Wenfei (Shanghai Astronomical Observatory Chinese Academy of Sciences)

**Presenter:** Ms CAO, Xiaofeng (Shanghai Astronomical Observatory Chinese Academy of Sciences / Huazhong Normal University)

Contribution ID: 33

Type: **Oral Talk**

## **A systematical analysis for the origin of the X-ray emission from the hot spots and knots in active galactic nuclei**

*Friday, 27 March 2009 14:15 (25 minutes)*

**Primary author:** Ms ZHANG, Jin (Yunnan Astronomical Observatory, Chinese Academy of Sciences)

**Presenter:** Ms ZHANG, Jin (Yunnan Astronomical Observatory, Chinese Academy of Sciences)

Contribution ID: 34

Type: **Oral Talk**

## **Accretion/Jet activities and [O III] kinematics in young radio loud AGNs**

*Friday, 27 March 2009 09:35 (15 minutes)*

**Primary author:** Dr 吴, 庆文 (韩国天文与空间科学研究院)

**Presenter:** Dr 吴, 庆文 (韩国天文与空间科学研究院)

Contribution ID: 35

Type: **Oral Talk**

## **Revising the fundamental plane at extremely low luminosities**

*Friday, 27 March 2009 15:30 (25 minutes)*

**Primary authors:** Mr YUAN, Feng (研究员); Mr YU, zhaolong (研究生)

**Presenter:** Mr YU, zhaolong (研究生)

Contribution ID: 36

Type: **Oral Talk**

## **BL Lac objects and the Extragalactic Gamma-Ray Background**

*Saturday, 28 March 2009 09:00 (25 minutes)*

**Primary author:** Ms LI, Fan (Shanghai Astronomical Observatory)

**Co-author:** Prof. CAO, Xinwu (Shanghai Astronomical Observatory)

**Presenter:** Ms LI, Fan (Shanghai Astronomical Observatory)

Contribution ID: 37

Type: **Oral Talk**

## **Absorption of 10 GeV-1 TeV Gamma Rays by Radiation from the Broad-Line Region in 3C 279**

*Saturday, 28 March 2009 08:45 (15 minutes)*

**Primary author:** Prof. BAI, Jinming (Yunnan Astronomical Observatory, Chinese Academy of Sciences)

**Presenter:** Prof. BAI, Jinming (Yunnan Astronomical Observatory, Chinese Academy of Sciences)

Contribution ID: **38**

Type: **Oral Talk**

## **Numerical simulation of hot accretion flow with radiation**

*Friday, 27 March 2009 17:20 (25 minutes)*

**Primary author:** Mr BU, defu (SHAO)

**Presenter:** Mr BU, defu (SHAO)



Contribution ID: 39

Type: **Poster**

## **A Model of Magnetically Induced Disc-Corona for Black Hole Binaries**

**Primary authors:** Prof. WANG, DingXiong (HUST 华中科大); Mr LEI, WeiHua (HUST 华中科大); Mr GAN, ZhaoMing (HUST 华中科大)

**Presenter:** Mr GAN, ZhaoMing (HUST 华中科大)

Contribution ID: 40

Type: **Oral Talk**

## **Swift/XRT observations and possible implications for GRB central engine**

*Saturday, 28 March 2009 09:25 (15 minutes)*

**Primary author:** Prof. LIANG, Enwei (广西大学)

**Co-authors:** Mr ZHANG, Bin-Bin (UNLV); Prof. ZHANG, Bing (UNLV); Mr LV, Houjun (广西大学); Dr LV, Lian-Zhong (广西大学)

**Presenter:** Prof. LIANG, Enwei (广西大学)

Contribution ID: 41

Type: **Oral Talk**

## **Single Power-Law Decaying XRT lightcurves and Implications for the Unified Origin of the X-rays**

*Saturday, 28 March 2009 09:40 (25 minutes)*

**Primary author:** Mr LV, Houjun (广西大学)

**Co-authors:** Mr ZHANG, Binbin (UNLV); Prof. ZHANG, Bing (UNLV); Prof. LIANG, Enwei (广西大学)

**Presenter:** Mr LV, Houjun (广西大学)

Contribution ID: 42

Type: **Poster**

## **Simulations analysis on the evolutions of long GRBs rate and their luminosity function**

**Primary author:** Mr QIN, Shu-Fu (Guangxi University)

**Co-authors:** Prof. LIANG, En-Wei (广西大学); Prof. LU, Rui-Jing (广西大学)

**Presenter:** Mr QIN, Shu-Fu (Guangxi University)

Contribution ID: 43

Type: **Poster**

## **Iron Line Emission from Slim Accretion Disk—Measurement of Black Hole Spin?**

**Primary authors:** Mr LI, Guangxing (USTC); Prof. YUAN, Yefei (USTC)

**Presenter:** Mr LI, Guangxing (USTC)

Contribution ID: 44

Type: **Poster**

## Neutrino scattering rates in neutron star matter with $\Delta$ -isobars

**Primary author:** Mr CHEN, Yanjun (USTC hefei)

**Presenter:** Mr CHEN, Yanjun (USTC hefei)

Contribution ID: 45

Type: **Oral Talk**

## Low-mass AGN at high accretion rates

*Friday, 27 March 2009 08:55 (15 minutes)*

**Primary author:** Dr XU, Dawei (National Astronomical Observatories of China)

**Presenter:** Dr XU, Dawei (National Astronomical Observatories of China)

Contribution ID: 46

Type: **Oral Talk**

## **The Dependence of Spectral State Transition and Disk Truncation on Viscosity Parameter $\alpha$**

*Friday, 27 March 2009 14:40 (25 minutes)*

**Primary author:** Mr QIAO, Erlin (ynao)

**Presenter:** Mr QIAO, Erlin (ynao)



Contribution ID: 47

Type: **Oral Talk**

## **Finding black holes in the distant universe with LAMOST quasar survey**

*Friday, 27 March 2009 08:40 (15 minutes)*

**Primary author:** Prof. WU, Xue-Bing (Peking University)

**Presenter:** Prof. WU, Xue-Bing (Peking University)

Contribution ID: 48

Type: **Oral Talk**

## Steady state solution of warped accretion disks

*Friday, 27 March 2009 16:40 (15 minutes)*

**Primary author:** Dr CHEN, Lei (Shanghai Astronomical Observatory, CAS)

**Co-authors:** Prof. YUAN, Feng (Shanghai Astronomical Observatory, CAS); Dr WU, Shengmiao (Shanghai Astronomical Observatory, CAS)

**Presenter:** Dr CHEN, Lei (Shanghai Astronomical Observatory, CAS)

Contribution ID: 49

Type: **Oral Talk**

## Establishing An Evolutionary Scenario of AGN

*Friday, 27 March 2009 11:20 (15 minutes)*

**Primary author:** Dr WANG, Jing (NAOC)

**Presenter:** Dr WANG, Jing (NAOC)

Contribution ID: 50

Type: **Oral Talk**

## 用交叉相关方法研究 X 射线晕

*Saturday, 28 March 2009 15:20 (25 minutes)*

**Primary author:** Mr 凌, 志兴 (清华大学天体物理中心)

**Presenter:** Mr 凌, 志兴 (清华大学天体物理中心)

Contribution ID: 51

Type: **Oral Talk**

## **Spectral States and Evolution of Ultraluminous X-ray Sources**

*Saturday, 28 March 2009 14:00 (15 minutes)*

**Primary author:** Prof. FENG, Hua (Tsinghua University)

**Presenter:** Prof. FENG, Hua (Tsinghua University)

Contribution ID: 52

Type: **not specified**

## A census of X-ray nuclear activity in nearby galaxies

**Primary author:** Dr ZHANG, Weiming (Astrophysics Center of Tsinghua University)

**Co-authors:** Prof. SWARTZ, Douglas A. (Universities Space Research Association, NASA Marshall Space Flight Center); Dr LIU, JiFeng (4Harvard-Smithsonian Center for Astrophysics); Dr SORIA, Roberto (MSSL, University College London); Prof. ZHANG, ShuangNan (Astrophysics Center of Tsinghua University)

**Presenter:** Dr ZHANG, Weiming (Astrophysics Center of Tsinghua University)

Contribution ID: 53

Type: **Oral Talk**

## **The structure and evolution of the two-component broad-line regions in AGNs**

*Friday, 27 March 2009 09:10 (25 minutes)*

**Primary author:** Ms ZHU, Ling (Center of astrophysics, Tsinghua university)

**Presenter:** Ms ZHU, Ling (Center of astrophysics, Tsinghua university)

Contribution ID: 55

Type: **Poster**

## **Correlation between WMAP and SDSS data: evidence for foreground contaminations of galaxies to WMAP cleaned map**

**Primary author:** Dr WANG, jian (Department of Physics and Center for Astrophysics, Tsinghua University, Beijing 100084, China)

**Presenter:** Dr WANG, jian (Department of Physics and Center for Astrophysics, Tsinghua University, Beijing 100084, China)



Contribution ID: 56

Type: **Poster**

## **SHARP: A sub-arcsec angular resolution Principle**

**Primary author:** Dr ZHANG, Chen (Tsinghua Center for Astrophysics)

**Co-author:** Prof. ZHANG, Shuangnan (Tsinghua Center for Astrophysics)

**Presenter:** Dr ZHANG, Chen (Tsinghua Center for Astrophysics)

Contribution ID: 57

Type: **Poster**

## The pointed observation sensitivity of HXMT

**Primary author:** Ms JIN, Jing (Tsinghua University)

**Co-authors:** Mr LI, Gang (Insititute of High energy Physics); Mr ZHANG, Shu (Insititute of High energy Physics); Mr ZHANG, Shuang-nan (Tsinghua University; Insititute of High energy Physics); Mr LI, Xin-qiao (Insititute of High energy Physics); Mr CHEN, Yong (Insititute of High energy Physics)

**Presenter:** Ms JIN, Jing (Tsinghua University)

Contribution ID: 58

Type: **Poster**

## **A study of the time lag in the X-ray emission of Cyg X-1**

**Primary authors:** Ms JIN, Jing (Tsinghua University); Prof. LI, Ti-pei (Tsinghua University; Institute of High Energy Physics)

**Presenter:** Ms JIN, Jing (Tsinghua University)

Contribution ID: **60**

Type: **Poster**

## **A study of the properties of low-frequency oscillations in XTE J1550-564**

**Primary author:** Mr RAO, Fengyun (Tsinghua Center for Astrophysics)

**Co-authors:** Prof. STELLA, Luigi (INAF-Osservatorio Astronomico di Roma); Prof. ZHANG, ShuangNan (Tsinghua Center for Astrophysics); Prof. LI, TiPei (Tsinghua Center for Astrophysics); Prof. BELLONI, Tomaso (INAF-Osservatorio Astronomico di Brera)

**Presenter:** Mr RAO, Fengyun (Tsinghua Center for Astrophysics)