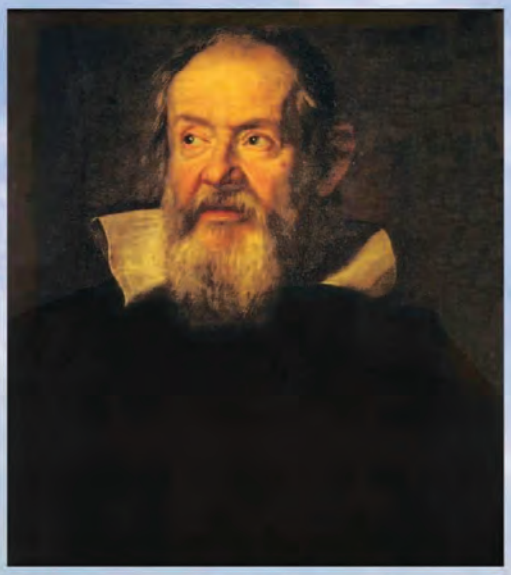
International Year of Astronomy 2009

the sun, the stars, the universe and General Relativity



The First Galileo-Xu Guangqi Meeting

October 26-30, 2009,
Shanghai, China

hosted by
Shanghai Astronomical Observatory
and
ICRANet

International Organizing Committee

'tHooft Gerard, Belinski Vladimir, Bianco Carlo Luciano, Blair David, Bunster Claudio, Chakrabarti Sandip K., Coullet Pierre, Dai Zigao, Damour Thibault, De Bernardis Paolo, Everitt Francis, Feng Longlong, Frontera Filippo, Funes Jose Gabriel, Giannone Pietro, Greiner Walter, Jing Yipeng (co-chairman), Kerr Roy, Kleinert Hagen, Kramer Michael, Lee Wolung, Li Miao, Menegon Eugenio, Meschini Giorgio, Novello Mario, Piran Tsvi, Qadir Asghar, Rosquist Kjell, Ruffini Remo (co-chairman), Sato Humitaka, Sreenivasan Katepalli R., Vereshchagin Gregory, Wang Bin Wang Tinggui, Wu Xiangping, Xu Haiguang, Xue Shesheng, Yan Jun, Yuan Feng, Zhang Shuangnan, Zhang Yang

Local Organizing Committee

Hou Jinliang, Jiang Peifang, Jing Yipeng (chair), Yuan Feng, Zhao, Donghai, Zhao Lingli, Zhang Pengjie, Zhou Lingyu

Public Lectures in evening

Blair David
(University of Western Australia)
Kerr Roy
(ICRANet and University of Canterbury, New Zealand)
Ruffini Remo
(ICRANet and University of Rome, Italy)

Large scale structures of the Universe and Galaxy formation

Chu Yaoquan, Frenk Carlos, Giavalisco Mauro, Guzzo Luigi, Ho Luis, Jing Yipeng, Madau Piero, Mo Houjun, Nichol Bob, Park Changbom, Percival Will, Puget Jean-Loup, Dave Romeel, Suto Yasushi, Wang Bin, Wang Junxian, Wang Lifang, Weinberg David, Yang Xiaohu, Zhang Pengjie

Gravitational waves and precision tests of general relativity (Regional Collaboration in Gravitational Astronomy)

Adhikari Rana, Bradascia Carlo, Damour Thibault, Dhurandhar Sanjeev, Fidecaro Francesco, Giazotto Adalberto, Hough Jim , Iyer Bala, Kuroda Kazuaki, McClelland David, Munch Jesper, Reitze David, Wen Linqing, Zhao Chunnong

General relativity, GRBs, neutron star and supernovae

Bianco Carlo Luciano, Chincarini Guido, Dai Zigao, Della Valle Massimo, Frontera Filippo, Kramer Michael, Liang Enwei, Piran Tsvi, Titarchuk Lev, Vereshchagin Gregory, Wang Xiangyu, Xue She-Sheng, Zhang Shuangnan

Cosmological stability, Comets, GRBs, Dinosaurs and species extinction and History of Astronomy

Chakrabarti Sandip P., Funes José, Menegon Eugenio, Sato Humitaka

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The First Galileo-Xu Guangqi Meeting
The Sun, The Star, the Universe and General Relativity
Shanghai - 26-30 October, 2009

DAY 1 - 26 October	DAY 2 – 27 October	DAY 3 – 28 October	DAY 4 – 29 October
Large scale structures of the Universe, Galaxy formation and clustering *Chair*: Jing Yipeng (Shanghai Observatory – Chinese Academy of Sciences, China) *Co-chair*: Remo Ruffini (ICRANet and University of Rome, Italy) **Opening Speeches:** 9:00-9:05 Jing Yipeng 9:05-9:10 Remo Ruffini	**Gravitational waves and International Collaboration in Gravitational Astronomy** *Chair*: David Blair (University of Western Australia, Australia) *Co-chair*: Lu Tan (Nanjing University, China)	**General relativity, GRBs, neutron star and supernovae I** *Chair*: Della Valle Massimo INAF-OA, Arcetri) *Co-chair*: She-Sheng Xue (ICRANet)	**General relativity, GRBs, neutron star and supernovae II** *Chair*: Zhang Shuangnan (Tsinghua Univesity *Co-chair*: Volodia Belinski (ICRANet, Italy)

Morning Session

9:10-9:50	Carlos Frenk	9:00-9:40	Jay Marx (California Inst of Techn)	9:00-9:30	Zhen Cao (IHEP- Chinese Acad)	8:30-9:00	Della Valle Massimo (INAF-OA, Arcetri, Italy)
9:50-10:30	Houjun Mo	9:40-10:20	Linqing Wen (Univ Western Australia)	9:30-10:00	Costa Enrico (Univ of Ferrara)	9:00-9:30	Chakrabarti Sandip P. (Bose Centre and Indian Centre for Space Physics)
10:30-10:50	**Coffee Break**	10:20-10:50	**Coffee Break Conference Photo**	10:00-10:30	Vissani Francesco (INFN-LNGS, Italy)	9:30-10:00	Pisin Chen (National Taiwan Univ - SLAC)
10:50-11:30	Robert Nichol	10:50-11:30	Rana Adhikari (California Inst of Techn)	10:30-10:50	**Coffee Break**	10:00-10:20	**Coffee Break**
11:30-12:10	Lifan Wang	11:30-12:10	Kazuaki Kuroda (Tokyo University)	10:50-11:20	Zhang Shuangnan (Tsinghua Univesity)	10:20:10:50	Hernando Quevedo Cubillos (UNAM, Mexico)
		13.30 Deposition of Flowers on the Statue of Xu Guangi		11:20-11:50	Paolo Natoli (Univ of Rome, Italy)	10:50-11:20	Ruffini Remo (Univ of Rome and ICRANet)
				11:50-12:20	Chincarini Guido (Univ of Milan, Italy)	11:20-11:50	Rueda Hernandez Jorge A. (Univ of Rome and ICRANet)

Afternoon Session

Parallel Sessions on: **Large scale Structures**	Parallel Sessions on: **Large scale Structures**	Parallel Sessions on: **Large scale Structures**
Gravitational Waves	**Gravitational Waves**	**Gravitational Waves**
General Relativity	**General Relativity**	**General Relativity**

Plenary Session talks:

Monday 26th October
Carlos Frenk: *Tests of the cosmological paradigm*
Houjun Mo: *Galaxy groups and cosmology*
Robert Nichol*: Large scale structures from SDSS*
Lifan Wang: *future explorer of dark energy -Kunlun Dark Universe Survey Telescope (KDUST)*

Tuesday 27th October
Jay Marx: *Introducing the GWIC Roadmap for Gravitational Astronomy*
Linqing Wen: *Identifying Gravitational Wave Sources and Their Electromagnetic Counterparts*
Rana Adhikari: *The Enhanced and Advanced LIGO Detectors*
Kazuaki Kuroda: *Cryogenic Advanced Gravitational Wave Detectors*

Wednesday 28th October
Zhen Cao: The *ARGO-YBJ Experiment Progresses and Future Extension at the Tibet Site*
Costa Enrico: *The status and the major results of the Mission AGILE*
Vissani Francesco: *Monitoring gravitational collapses with neutrinos: SN1987A and the future*
Zhang Shuangnan*: Does free-fall collapse form "frozen star" or singularity*
Natoli Paolo: *Cosmology with Planck*
Chincarini Guido*: GRB Flares as observed by Swift – XRT*

Thursday 29th October
Della Valle Massimo: *Latest Highlights on the Supernova Gamma-ray Bursts Connection*
Chakrabarti Sandip P.: *The Unified Paradigm of Accretion flows on to black holes*
Pisin Chen: T*he Dark Energy Puzzle*
Quevedo Cubillos Hernando: *On the existence of naked singularities*
Ruffini Remo: *Fundamental Physics from Black Holes, Neutron Stars and Gamma-Ray bursts*
Rueda Hernandez Jorge: *The role of compressed electrons: from nuclei to neutron stars*

Evening Session				
	DAY 1 - 26 October	**DAY 2 - 27 October**	**DAY 3 - 28 October**	**DAY 4 - 29 October**
18:00	Banquet on cruise in Pujiang River	Public Lecture at Italian Cultural Centre MMC (Modern Management Centre). Address: Room 505, No. 66, Xingfu Road, Shanghai Speakers: Ruffini Remo *Da Galileo e Xu Guangqi all'astrofisica relativistica di Einstein* Xue She-Sheng *La mia esperienza scientifica in Italia* Meschini Giorgio (Mayor of Macerata) *Macerata, città della nascita di Matteo Ricci* Benoit Vermander (Director of Ricci Institute at Fudan University) *Matteo Ricci e Xu Guangqi e una leadership spirituale in un grande successo scientifico* Presentation of the Erasmus Mundus IRAP Ph D program by: Chardonnet Pascal (France) Rosquist Kjell (Sweden) Chakrabarti Sandip (India)	Public lecture in Jiaotong University by Remo Ruffini *From the Astrophyisics of Galileo to the Relativistic Astrophysics of Albert Einstein*	Public lecture in Fudan University by David Blair

Afternoon Session General relativity, GRBs, neutron star and supernovae						
DAY 1 - 26 October		**DAY 2 - 27 October**		**DAY 3 - 28 October**		**DAY 4 - 29 October**
	Chairs: **Giannone Pietro** **Zhang Chengmin**		**Chairs:** **Rosquist Kjell** **Enwei Liang**		**Chairs:** **Pascal Chardonnet** **Xiangyu Wang**	**Chair:** **Pascal Chardonnet**
13:30-14:00	Rosquist Kjell (Univ of Stockholm) 25 min + 5 min discussion	14:30-15:00	Vigorito Carlo (Univ of Turin, Italy) 25 min + 5 min discussion	14:30-15:00	Pascal Chardonnet (Univ of Savoie) 25 min + 5 min discussion	Discussion on collaboration optical X- and Gamma-ray astrophysics Bianco Carlo Luciano Caito Letizia Chincarini Guido Costa Enrico Della Valle Massimo Izzo Luca Liang Enwei Margutti Raffaella Nagatakai Shigehiro Patricelli Barbara Rueda Hernandez J. Ruffini Remo Vissani Francesco Wang Xiangyu Xue She-Sheng Zhang Shuangnan
14:00-14:30	Belinski Vladimir (ICRANet) 25 min + 5 min discussion	15:00-15:30	Giannone Pietro (Univ. of Rome) 25 min + 5 min discussion	15:00-15:30	Enwei Liang (Guangxi University) 25 min + 5 min discussion	
14:30-15:00	Jerzy Lukierski (Univ of Wrocław, Poland) 25 min + 5 min discussion	15:30-16:00	Xiangyu Wang (Nanjing University, China) 25 min + 5 min discussion	15:30-16:00	Nagataki Shigehiro (Kyoto University) 25 min + 5 min discussion	
15:00-15:25	Scardigli Fabio (National Taiwan Univ) 20 min + 5 min discussion	16:00-16:20	Coffee Break	16:00-16:20	Coffee Break	
15:25-15:50	Lee Wonloo (Sogang Univ, South Korea) 20 min + 5 min discussion	16:20-16:45	Zhang Chengmin (NAOC, China) 20 min + 5 min discussion	16:20-16:40	Letizia Caito (Univ. of Rome) 15 min + 5 min discussion	
16:00-16:20	Coffee Break	16:45-17:10	Lorenzo Iorio (INFN, Pisa) 20 min + 5 min discussion	16:40-17:00	Margutti Raffaella (Astronomical Observ Brera) 15 min + 5 min discussion	
16:20-16:45	M. B. Paranjape (Université de Montréal) 20 min + 5 min discussion	17:10-17:35	Izzo Luca (Univ of Rome) 20 min + 5 min discussion	17:00-17:20	Patricelli Barbara (Univ. of Rome) 15 min + 5 min discussion	

Afternoon Session **Gravitational waves and precision tests of general relativity (Regional Collaboration in Gravitational Astronomy)**						
Day1 - 26 October *Planning the future of Gravitational Astronomy* Co-Chairs: Chunnong Zhao (UWA), Edna Cheung (Nanjing University)		Day2 - 27 October *Detectors and Technology for Gravitational Astronomy* Co-Chairs Li Ju (UWA), Zhonghong Zhu (Beijing N. U)		Day3 - 28 October *Data Analysis Challenges of Gravitational Astronomy* Co-Chairs Weitou Ni (PMO) Stan Whitcomb (LIGO)		Day4 -29 October *Workshop on Regional Collaboration in GW Detection* Co-Chairs Bala Iyer (RRI, India), Junwei Cao (Tsinghua U)
14:30-15:00	**Bernard Schutz** (AEI): Enhanced Science from Advanced Detectors in Asia	14:45-15:15	**Jesper Munch** (U. Adelaide): The AIGO Project	14:30-15:00	**Yang Zhang** (USTC): Stochastic background gravitational waves from the Big Bang	**David Reitze** (LSC): Managing large international collaborations
15:00-15:30	**Bala Iyer** (RRI): Gravitational Waveforms for Binary Black Holes	15:15-15:45	**Adalberto Giazotto** (VIRGO): The Advanced Virgo Interferometer	15:00-15:30	**Sanjeev Dhurandhar**(IUCAA): Coherent versus coincidence search for inspirals	**CS Unnikrishnan** Plans for developing GW Astronomy in India
15:30-16:00	**Weitou Ni** (PMO): Spacecraft Gravitational Wave Detectors	15:45-16:15	**Chunnong Zhao** (UWA): Controlling Instabilities in High Power Interferometers	15:30-16:00	**Junwei Cao** (Tsinghua U & LIGO): Real-time GW Burst Search in the LIGO S6 Run	
16:00-16:20	Coffee break	16:15-16:35	Coffee/Tea Break	16:00-16:20	Coffee/Tea Break	
16:20-16:50	**Stan Whitcomb** (LIGO): How to Build a Gravitational wave Detector	16:35-17:05	**Li Ju** (UWA): Advanced Vibration Isolation Systems for AIGO	16:20-16:50	**Tarun Souradeep** (IUCAA): Mapping the stochastic GW background	Panel discussion: The Way forward for Extending the Worldwide Gravitational Wave Detector Array.
16:50-17:20	**Francesco Fidecaro** (VIRGO): The Virgo Detector and future enhancements	17:05-17:35	**David McClelland** (ANU): Quantum Squeezing in Advanced GW detectors	16:50-17:20	**Maria Alessandra Papa** (LSC): GW data analysis challenges and results with the current network of operating detectors	
17:20-17:50	**Yun-Kau Lau**: Quantum interferometry as a way to probe the foundation of quantum theory	17:35-18:05	**Jun Luo** (Huazhong U): Precision Measurement of G	17:20-17:50	**Keyun Tang** (17:20-17:40) Preliminary Evidences to Show the Existences of Gravitomagnatism	

Afternoon Session Large-scale structures and Galaxy formation							
DAY 1 - 26 October		DAY 2 - 27 October		DAY 3 - 28 October		DAY 4 - 29 October	
Galaxies and their environments Chair: Carlos Frenk		**Large scale structures at low and high redshifts Chair: Xiaohu Yang**		**Dark energy: theories and future experiments Chair: Weipeng Lin**		**Future collaborations of the Chinese Community with the world Chair: Houjun Mo**	
14:30-15:10	Changbom Park, Topology of Large-Scale Structure Traced by Different Types of Galaxies	14:30-15:10	Will Percival, Cosmological Constraints from Galaxy Clustering	14:30-15:10	Bin Wang: The interaction between DE and DM	14:30-15:10	Yipeng Jing: An outline of recent and future Chinese projects in the field, and an introduction of Shanghai Astronomical Observatory
15:10-15:40	Cheng Li: The distribution of stellar mass-to-light ratio in the local Universe	15:10-15:35	Donghai Zhao, The Growth and concentration of dark matter halos	15:10-15:40	Pengjie Zhang Testing gravity at cosmological scales: from linear to non-linear regimes		**More short talks on the topic can be added.**
1540-16:10	Coffee Break	15:35-16:00	Yue Shen, TBD	15:40-16:20	Andreas Albrecht:, Dark Energy: Current theoretical issues and progress toward future experiments		
16:10-16:50	Xiaohu Yang HOD: Lighting dark matter halos with galaxies	16:00-16:20	Coffee Break	16:20-16:40	Coffee Break	16:20-16:40	Coffee Break
17:00	Leaving for the Banquet	**Chair: Bob Nichol**		**Chair: Luigi Guzzo**			
		16:20-17:00	Luigi Guzzo, Understanding The Origin Of Cosmic Acceleration With Galaxy Redshift Surveys	16:40-17:20	Tony Tyson: Probing Dark Energy with the Large Synoptic Survey Telescope	16:40	Discussion
		17:00-17:30	Martin Kilbinger, Cosmological parameters from weak gravitational lensing - recent results from CFHTLS	17:20-17:50	Hu Zhan Rees, Sciama Effect of Super Structures	18:30	Dinner of the Session

			and COSMOS				
		17:40-18:05	Weipeng Lin, The baryonic effect on the properties of dark matter halos	17:50-18:05	Jamil, Mubasher: Interacting new generalized Chaplygin gas		
		18:05-18:30	Cesario Almeida: Modelling the dusty universe				

First Galileo-Xu GuangQi - List of participants

Participant	Institution	Country
Blair, David	*School of Physics, The University of Western Australia*	Australia
Davidson, Jacqueline	*The University of Western Australia*	Australia
Fan, Yaohui	*School of Physics, The University of Western Australia*	Australia
Ju, Li	*School of Physics, The University of Western Australia*	Australia
McClelland, David	*The Australian National University*	Australia
Munch, Jesper	*The University of Adelaide*	Australia
Wen, Linqing	*School of Physics, The University of Western Australia*	Australia
Zhao, Chunnong	*School of Physics, The University of Western Australia*	Australia
Ahmad, Mushfiq	*Rajshahi University*	Bangladesh
Mosquera Cuesta, Herman J.	*Instituto de Cosmologia, Relatividade e Astrofísica (ICRA-BR)/CBPF*	Brazil
MacKenzie, Richard	*Université de Montréal*	Canada
Paranjape, Manu Paranjape	*Université de Montréal*	Canada
Bing, Chen	*ShangHai University*	China
Bostani, Neda	*Institute of High Energy Physics*	China
Cao, Junwei	*Research Institute of Information Technology*	China
Cao, Xiaofeng	*Shanghai Astronomical Observatory, Huazhong Normal University*	China
Cao, Xinwu	*Shanghai Astronomical Observatory, CAS*	China
Cao, Zhen	*Institute of High Energy Physics*	China
Chen, Li	*Shanghai Observatory*	China
Gao, Gangjie	*Shanghai Astronomical Observatory*	China
Gao, Jiangong	*Urumqi Observatory*	China
Gan, Jianling	*Shanghai Astronomical Observatory*	China
Gao, Sijie	*Beijing Normal University*	China
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Wang, Bin	*Fudan University*	China
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Wang, Fayin	*Nanjing University*	China
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Wang, Jing	*National Astronomical observatories, Chinese Academy of Sciences*	China
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Yuan, Feng	*Shanghai Astronomical Observatory*	China
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Zhang, Chengmin	*NAOC*	China
Zhang, Pengjie	*Shanghai Astronomical Observatory*	China
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Zhen, Yan	*Shanghai Astronomical Observatory*	China
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Krishnan, Badri	*Max Planck Insitute for Gravitational Physics*	Germany
Li, Cheng	*Max-Planck-Institute for Astrophysics*	Germany
Papa, M.Alessandra	*Max Planck Institute for Gravitational Physics and University of Wisconsin Milwaukee*	Germany
Schutz, Bernard	*Albert Einstein Institute*	Germany
Chakrabarty, Sandip Kumar	*S.N. Bose National Centre for Basic Sciences,*	India
Dhurandhar, Sanjeev	*Inter-University Centre for Astronomy & Astrophysics*	India
Dutta, Pratima	*Gauhati University*	India

Iyer, Balasubramanian	*Raman Research Institute*	India
Kanduru, Srinivasa Raghava	*K.L. University,*	India
Mishra, Ravi Kant	*SLIET,DEEMED UNIVERSITY (established by Government of India) Punjab,India.*	India
Sarin, Pradeep	*Indian Institute of Technology, Bombay - India*	India
Souradeep, Tarun	*Inter-University Centre for Astronomy & Astrophysics (IUCAA)*	India
Unnikrishnan, C.S.	*Tata Institute of Fundamental Research, Mumbai*	India
Uv, Satya Seshavatharam	*AMIIM, Kolkata*	India
Hanifezade, Morteza	*Iranian juniors society of Nanotechnology*	Iran
Prodanov, Emil	*School of Mathematical Sciences, Dublin Institute of Technology*	Ireland
Belinski, Vladimir	*ICRANET*	Italy
Bianco, Carlo Luciano	*ICRANet*	Italy
Caito, Letizia	*ICRANet, ICRA and "Sapienza" University*	Italy
Capaccioli, Massimo	*INAF - VSTceN*	Italy
Chincarini, Guido	*Milano Bicocca University - Astronomical Observatory of Brera*	Italy
Costa, Enrico	*Istituto di Astrofisica Spaziale e fisica Cosmica di Roma, INAF*	Italy
Della Valle, Massimo	*INAF-Napoli & ICRANet, Pescara*	Italy
Di Criscienzo, Roberto	*UNIVERSITA DEGLI STUDI DI TRENTO - DIPARTIMENTO DI FISICA*	Italy
Fidecaro, Francesco	*Università di Pisa - INFN - EGO*	Italy
Giannone, Maria Gisella	*Accompanying person*	Italy
Giannone, Pietro	*Physics Department University "Sapienza"*	Italy
Giazotto, Adalberto	*INFN*	Italy
Guzzo, Luigi	*INAF - OSSERVATORIO ASTRONOMICO DI BRERA*	Italy
Han, Wen-Biao	*ICRA*	Italy
Iorio, Lorenzo	*INFN-Pisa*	Italy
Izzo, Luca	*University of Rome "Sapienza" and ICRA*	Italy
Lauriola, Luca	*-*	Italy
Margutti, Raffaella	*Astronomical Observatory of Brera*	Italy
Meschini, Giorgio	*Municipaltity of Macerata*	Italy
Natoli, Paolo	*Universita di Roma "Tor Vergata"*	Italy
Patricelli, Barbara	*University of Rome "La Sapienza"*	Italy
Quevedo, Hernando	*ICRANet*	Italy
Rueda Hernandez, Jorge Armando	*University of Rome La Sapienza*	Italy
Ruffini, Remo	*ICRANet*	Italy
Sigismondi, Costantino	*ICRA, International Center for Relativistic Astrophysics*	Italy
Siutsou, Ivan	*ICRANet*	Italy
Titarchuk, Lev	*University of Ferrara*	Italy
Vigorito, Carlo Francesco	*INFN & UNIVERSITY TORINO*	Italy
Vissani, Francesco	*INFN, Laboratori Nazionali del Gran Sasso*	Italy
Vladimirova, Elena	*Accompaining person, the wife of prof. V.Belinski*	Italy
Xue, She-Sheng	*ICRANet*	Italy
Asano, Katsuaki	*Tokyo Institute of Technology*	Japan
Nagataki, Shigehiro	*YITP, Kyoto University*	Japan
Suto, Yasushi	*Department of Physics, University of Tokyo*	Japan
Abdidldin, Meirkhan	*Al-Farabi Kazakh National University*	Kazakhstan
Abishev, Medeu	*Al-Farabi Kazakh National University*	Kazakhstan
Boshkayev, Kuantay	*Al-Farabi Kazakh National University, Department of Physics*	Kazakhstan
Ramankulov, Kamalbek	*The Kazakh national pedagogical university of a name of Abaja*	Kazakhstan
Ali Soumail, Abdou	*Faculté des Sciences Rabat-Agdal Morocco*	Morocco
Khan , Muhammad Juanid Iqbal	*University Mohammad V, Rabat, Morocco*	Morocco
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Jamil, Mubasher	*Center for advanced mathematics and physics, National university of sciences and technology*	Pakistan
Lukierski, Jerzy Andrzej	*Institute for Theoretical Physics, University of Wroclaw*	Poland
Zakharov, Alexander	*Institute of Theoretical and Experimental Physics,*	Russia
Lee, Wonwoo	*Center for Quantum Spacetime, Sogang University*	South Korea
Park, Changbom	*Korea Institute for Advanced Study*	South Korea
Rosquist, Kjell	*Dept of Physics, Stockholm University*	Sweden
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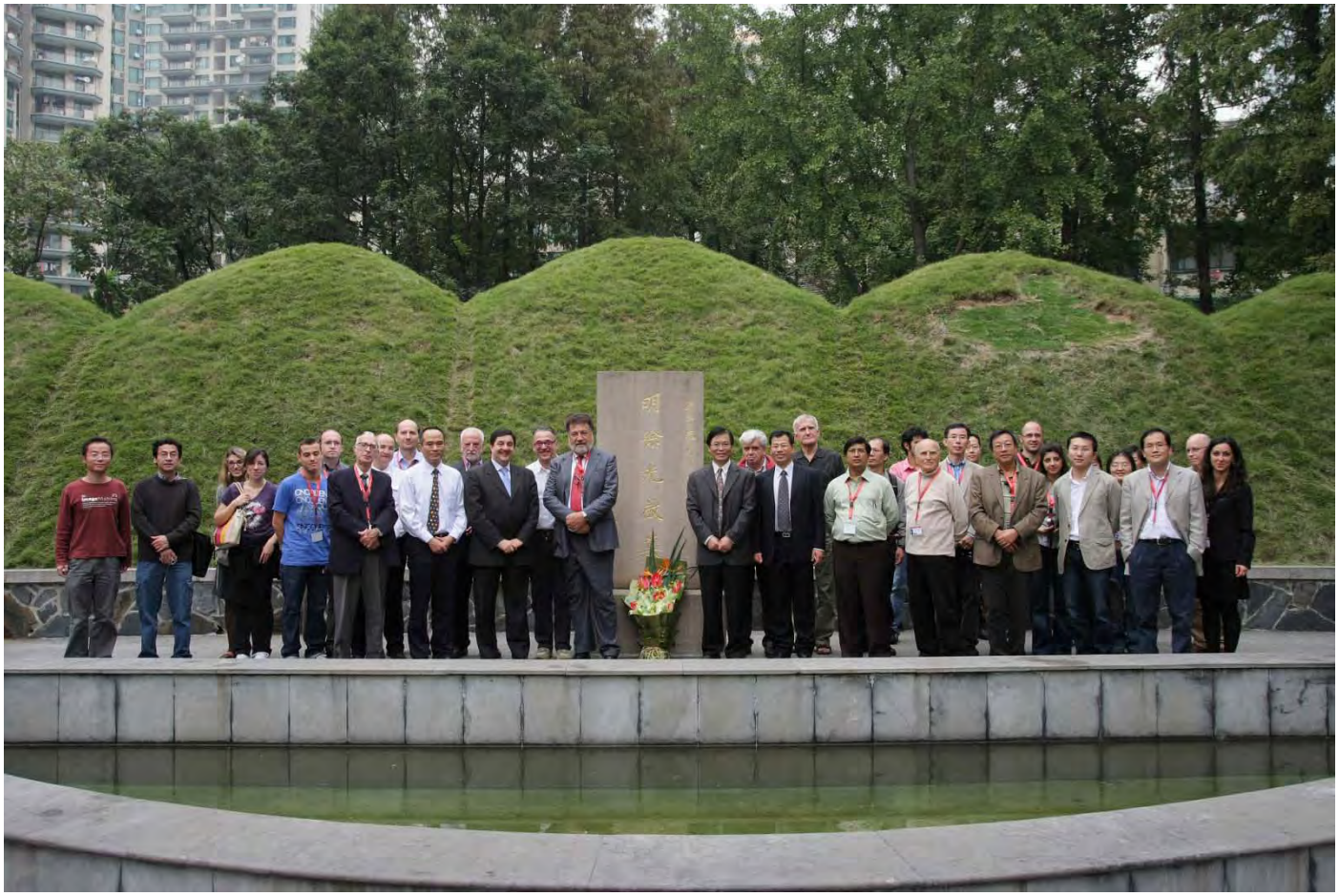
Frenk, Carlos	*Durham University*	Kingdom
Nichol, Rober	*Institute of Cosmology and Gravitation*	United
Percival, William	*University of Portsmouth*	Kingdom
Albrecht, Andreas	*UC Davis Department of Physics*	USA
Marx, Jay	*LIGO - California Institute of California*	USA
Mo, Houjun	*Department of Astronomy, University of Massachusetts*	USA
Reitze, David	*University of Florida*	USA
Shen, Yue	*Princeton University*	USA
Tyson, Anthony	*University of California*	USA
Wang, Lifan	*Texas A&M University*	USA
Whitcomb, Stanley	*LIGO Lab/California Institute of Technology*	USA

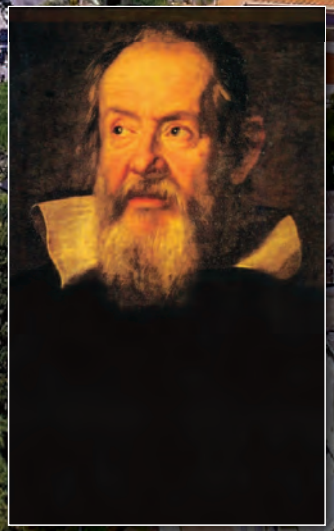
Participants of the 1st Galileo-XuGuangqi meeting
26 – 30 October, 2009 - Shanghai

Remo Ruffini and Xiaoyu Hong, Director of the Shanghai Observatory
XuGuangqi Monument – 27 October, 2009



Xu-GuangQi park

The Second 第二届伽利略 - 徐光启会议
GALILEO-XU GUANGQI Meeting



July 12-17, 2010 - Nice, France

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KOREA (Pyongyang) Kim Jik Su • Ri Chang Hyok
NEW ZEALAND Kerr, Roy • Wiltshire, David
RUSSIA Arkhangelskaya, Irene • Aksenov, Alexey
SWEDEN Rosquist, Kjell
SWITZERLAND Christodoulou, Demetrios
UNITED KINGDOM Kramer, Michael • Willingale, Richard
USA Arnett, David • Everitt, Francis • Fang, Li-Zhi **(co-chairman)** • Jantzen, Robert • Mester, John • Misner, Charles • Shuxian, Li • Titarchuk, Lev • Whitcomb, Stan
VATICAN STATE Funes, Jose Gabriel

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PROGRAM

2nd Galileo-XuGuangqi Meeting

11-16 July 2010

Villa Hanbury
Ventimiglia (Italy)

Villa Ratti
Nice (France)

Embassy of Italy in Seoul - Office of S&T

Université Nice SOPHIA ANTIPOLIS

Stockholm University

Institute for the Early Universe

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Legend

- o ICRANet Representatives in the Steering and Scientific Committee
- Faculty
- * Secretariat and Administration

* * *

2nd Galileo-XuGuangqi Meeting

con il contributo del Ministero degli Affari Esteri,
Direzione Generale per la Promozione e la Cooperazione Culturale

Sunday July 11, 2010
Hanbury Botanic Gardens (Ventimiglia)
16:00 – 19:00 Registration

The “Galileo – Xu Guanqi meetings” have been initiated in 2009 to celebrate the 400th anniversary of the use by Galileo Galilei of the telescope in order to study the structure of our Universe. The meetings dedicated to recall the European roots of the modern scientific research in China and in the Orient and communicate the recent progress in one of the most advanced fields of scientific research: the one of relativistic astrophysics. These results are achieved on the ground of the theories of Albert Einstein and thanks to unprecedented numbers of observational techniques: in X-ray, Gamma-ray, optical wave-lengths from space based observatories, in radio telescopes wavelengths from telescopes on the ground as well as in particle physics from underground observatories. The name of Xu Guangqi, the most eminent collaborator of Matteo Ricci (Ri Ma Dou), celebrates his activities in bringing to China the works of Euclid and Galileo and his fostering the modernization and scientific development of China. The “Galileo – Xu Guanqi Meetings” are called every year, alternatively in the East and in the West, to promote the scientific cooperation of Eastern Countries, including China and Korea with the international scientists in the field of Relativistic Astrophysics.

Monday Morning - July 12

Black Holes, Neutron Stars and Dark Matter

Chairperson: Shuang-Nan Zhang

8:30 Welcoming Address:
University of Genova
University of Nice – Sophia Antipolis
ICRANet (International Center for Relativistic Astrophysics)
Free University of Berlin
ICTP (International Center for Theoretical Physics)
INFN (National Institute of Nuclear Physics)
Italian Foreign Ministry
KASI (Korea Astronomy and Space Science Institute)
LeCosPa (Leung Center for Cosmology and Particle Astrophysics)
NAOC (National Astronomical Observatories, Chinese Academy of Sciences)

9:00 Roy Kerr *(30 minutes)*
Stationary axisimmetric metrics

9:30 Belinski Vladimir *(20 minutes)*
Stationary Einstein-Maxwell Solitons
Bravetti Alessandro *(10 minutes)*
On The Correspondence Between Extremal Black Holes and real poles in the ISM for electro-vacuum

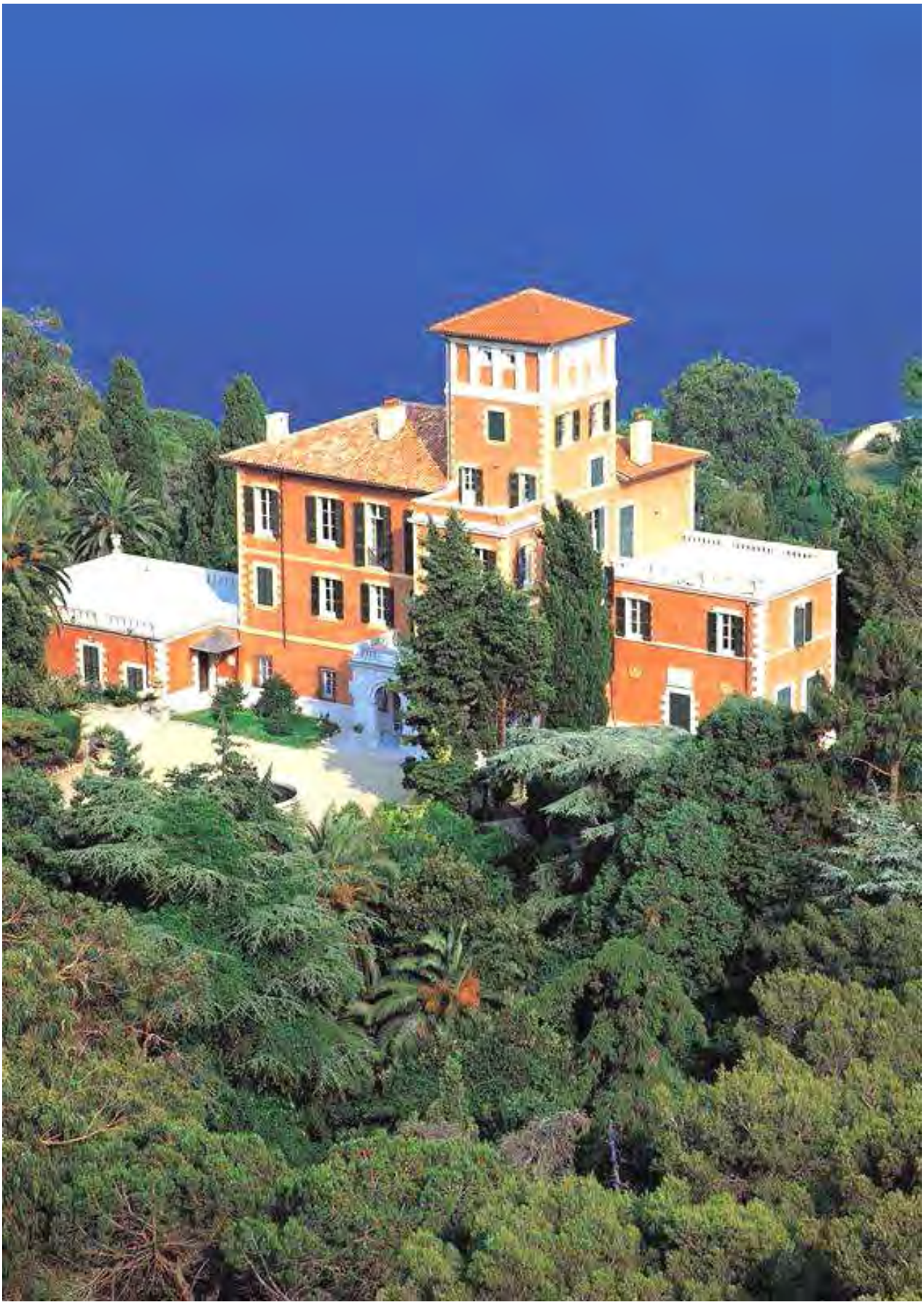
10:00 Arnett David *(30 minutes)*
What determines the Rotational State of a Collapsing Star?

10:30 coffee break

10:50 Rueda Jorge *(20 minutes)* and
Pugliese Daniela *(10 minutes)*
A general relativistic Thomas-Fermi treatment of neutron star cores

11:20 Rotondo Michael *(20 minutes)*
On the relativistic Thomas-Fermi treatment of compressed atoms and compressed nuclear matter cores of stellar dimensions
Boshkayev Kuantay (*10 minutes)*
On Magnetic Fields in Neutron Stars

11:50 Coppi Bruno (*30 minutes)*
Gedanken and Shining Black Holes



Villa Hanbury

Monday Afternoon - July 12

Chairperson: Song Doo Jong

14:30 Filippi Simonetta (*15 minutes)* and
Cherubini Christian *(15 minutes)*
Rotating Self-gravitating Systems and Clebsch Theory: the acoustic effective geometry approach

15:00 Zhang Chengmin *(30 minutes)*
Neutron Star Mass and Strong Gravity - Implications of kHz QPOs

15:30 Hyun Kyu Lee *(30 minutes)*
Structure of compact star with dense hadronic matter at the core

16:00 Coffee Break

16:20 Bini Donato *(20 minutes)*
Poynting-Robertson effect in black hole spacetimes
Haney Maria *(10 minutes)*
Neutron Stars Pulsations

16:50 Geralico Andrea *(20 minutes)* and
Pompi Francesca *(10 minutes)*
Einstein Clusters and Black Holes

17:20 Shuang-Nan Zhang *(30 minutes)*
On the nature of Z-sources: neutron star magnetic field, accretion disk structure and evolution

17:50 Mohammadi Rohoollah *(30 minutes)*
Solution to Thomas-Fermi equation in the presence of strong magnetic fields

Tuesday Morning - July 13

Large Scale Structure and Early Universe

Chairperson: Lee Chul-Hoon

8:30 Mo Houjun *(30 minutes)*
A Bayesian approach to the semi-analytic model of galaxy formation

9:00 Amati Lorenzo *(30 minute)*
Measuring cosmological parameters with GRBs

9:30 Einasto Jaan *(30 minutes)*
Large Scale Structure of the Universe - a powerful probe for fundamental physics"

10:00 Fang Li-Zhi *(30 minutes)*
Nonlinear evolution of cosmic baryon matter

10:30 coffee break

10:50 Rosquist Kjell *(30 minutes)*
Constraints of initial data for a discrete universe

11:20 Kleinert Hagen *(30 minutes)*
New Gauge Invariance of Gravity and the Fate of Torsion

11:50 Damour Thibault (20 minutes) and
Lecian Orchidea Maria (10 minutes)
About the Statistical Properties of Cosmological Billiards

Villa Hanbury

Tuesday Afternoon - July 13

Chairperson: Farrock Vakili

14:30

15:00 Ferrari Chiara *(20 minutes)*
Non-thermal phenomena in galaxy clusters

15:30 Melchiorri Alessandro *(20 minutes)*
Cosmic Microwave Background Anisotropies: Current Status and prospects
Pandolfi Stefania *(10 minutes)*
Harrison-Zel'dovich primordial spectrum is consistent with observations

16:00 Coffee Break

16:20 Gao Yu *(30 minutes)*
Star Formation Laws in Galaxies

16:50 Kim Sung-Won *(30 minutes)*
Cosmological perturbation and Dark Energy

17:20 Chen Xuelei *(30 minutes)*
Topics in 21cm cosmology

17:50 Scardigli Fabio *(15 minutes)*
Pre-inflation matter era and the CMB power spectrum

Villa Hanbury

Wednesday Morning - July 14

Astroparticle Physics and Astrophysics

Chairperson: Einasto Jaan

8:30 Vissani Francesco *(30 minutes)*
Progresses in neutrino astronomy

9:00 Ruffini Remo *(30 minutes)*
Black holes in GRBs and galactic nuclei

9:30 Ruchayskyi Oleg
Sterile neutrino dark matter

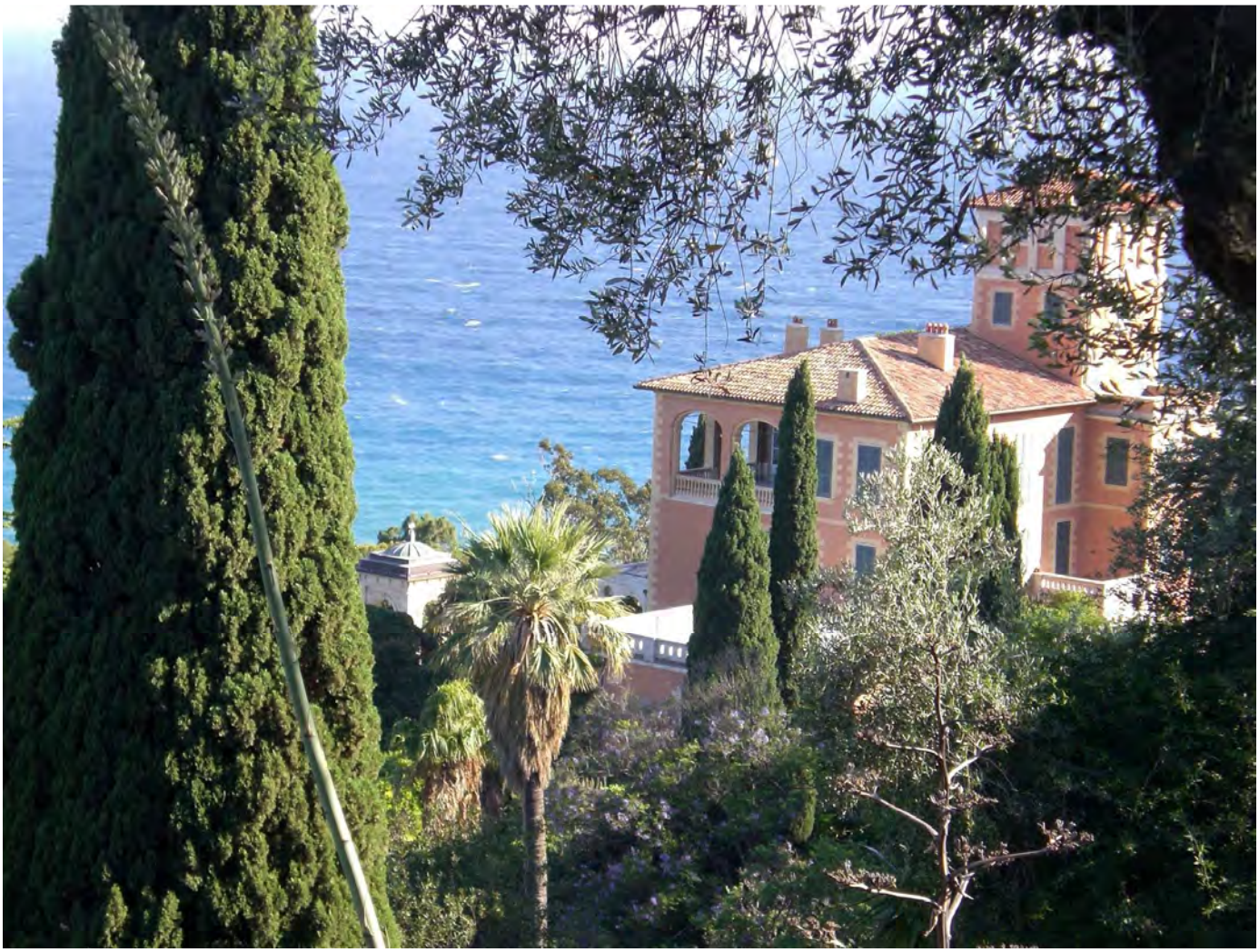
10:00 Aharonian Felix *(20 minutes)*
Exploring galactic and extragalactic particle accelerators with X-rays, gamma-rays and neutrinos
Sahakyan Narek *(10 minutes)*
On the origin of high energy gamma-rays from giant radio lobes of Centaurus A.

10:30 Coffee Break

10:50 Chakrabarti Sandip *(30 minutes)*
Black Hole Accretion: How do the variable and outburst sources do it?

11:20 Cremonesi Oliviero *(30 minutes)*
Neutrinoless Double Beta Decay Searches

11:50 Belli Pierluigi – DAMA *(30 minutes)*
Particle Dark Matter in the galactic halo: results from DAMA/LIBRA



Villa Hanbury

Wednesday Afternoon - July 14

Chairperson: Chardonnet Pascal

14:30 Yang Xiaohu *(30 minutes)*
The evolution of galaxies: central vs satellite

15:00 Pisin Chen *(30 minutes)*
Gauge Theory of Gravity with de Sitter Symmetry as a Solution to the Cosmological Constant Problem and the Dark Energy Puzzle

15:30 Bourguignon Jean-Pierre *(30 minutes)*
Ricci flow and the solution of the Poincaré conjecture by Grisha Perelma

18:00 July 14th Nice Parade

19:30 Visit at Villa Ratti

20:00 Banquet at the Observatoire de la Côte d'Azur

Villa Ratti and its garden

Thursday Morning, July 15, 2010

Ultra High Energy Sources and Gamma Ray Bursts

Chairperson: Harutyunyan Hayk

8:30 Nicolai Hermann *(30 minutes)*
Symmetries and Singularities

9:00 Boer Michel *(30 minutes)*
Rapid multi-wavelength observations of gamma-ray bursts

9:30 Frontera Filippo *(30 minutes)*
The time resolved spectra of Gamma Ray Bursts

10:00 Xue She-Sheng *(20 minutes)* and
Han Wenbiao *(10 minutes)*
Electron-positron pair oscillation in spatially inhomogeneous electric fields and radiation

10:30 Coffee Break

10:50 Vereshchagin Gregory *(20 minutes)*
Hydrodynamics of the optically thick phase in GRBs
De Barros Gustavo (*10 minutes)*
Numerical analysis of an optically thick plasma

11,20 Aksenov Aleksey *(20 minutes)* and
Siutsou Ivan (*10 minutes) RB*
Pair winds from compact objects with an application to GRBs

11,50 Izzo Luca (30 minutes)
The Ultra Relativistic GRBs

Observatoire de la Côte d'Azur

Thursday Afternoon - July 15

Chairperson: Kim Sang Pyo

14:30 Della Valle Massimo *(20 minutes)* and
Izzo Luca *(10 minutes)*
Wild and Weird Supernovae

15:00 Bernardini Maria Grazia *(20 minutes)*
Gamma-Ray Burst light curves and spectra within the Fireshell model
Patricelli Barbara *(10 minutes)*
High energetic GRBs and their spectral properties within the fireshell model

15:30 Pacheco Josè (*20 minutes)* and
Kanaan Chadia (*10 minutes*)
The energy distribution of gamma-ray burst revisited

16:00 Coffee Break

16:20 Bianco Carlo Luciano *(20 minutes)*
The fireshell equations of motion and the P-GRB observational properties
Caito Letizia (*10 minutes)*
The class of disguised short bursts: some examples

16:50 Arkhangelskaja Irene *(30 minutes)*
The characteristics of GRB with high energy component in their spectra

17:20 Aliev Alikram (30 minutes)
Observing Black Holes: Quasi-Periodic Oscillations

17:50 Lee Bumhoon*(30 minutes)*
Vacuum Bubbles and Gravity Effects

Liu Wenbiao *(20 minutes)*
Tortoise coordinate transformation on apparent horizon of a dynamical black hole

Villa Hanbury

Friday Morning - July 16

Scientific Space Missions and International Cooperations (Brazilian-Chinese-French-Italian)

Chairperson: Chen Xuelei

8:30 Piran Tsvi (30 minutes)

9:00 Braga Joao *(30 minutes)*
MIRAX: a Brazilian-Italian X-Ray Astronomy Mission for GRBs and X-Ray Transients

9:30 Feroci Marco *(30 minutes)*
The Italian scientific payload onboard MIRAX

10:00 Arnaud Jean *(20 minutes)*
Overview on Picard satellite mission
Sigismondi Costantino (*10 minutes)*
Methods to measure the solar diameter

10:30 Coffee Break

10:50 Mester John *(20 minutes)* and
Ferroni Valerio*(10 minutes)*
Space and superconducting techniques for General Relativity

11:20 Costa Enrico *(30 minutes)*
Relativistic Astrophysics with AGILE

11:50 Arkhangelsky Igor *(30 minutes)*
The application of the BrilLanCe series scintillation detector in the spectrometer of neural particles in the satellite experiment ZINA-NT

Villa Hanbury

Friday Afternoon - July 16

Chairperson: Hyung Won Lee

14:30 Wang Zhaozhong and Jin Yong *(30 minutes)*
Nanotechnology in astrophysics

15:00 Lee Chul Hoon *(30 minutes)*
Nucleation and Dynamics of Vacuum Bubbles of a Self-Gravitating Scalar Field

15:30 Lee Da-Shin *(30 minutes)*
Quantum Noise in the Mirror-Field System: A Field Theoretic Approach

16:00 Coffee Break

16:20 Ng Kin Wang *(30 minutes)*
Effects of black holes to inflation perturbation

16:50 Hu Zhan *(30 minutes)*
Testing dark energy models and gravity theory with large imaging and spectroscopic surveys

17:20 Lee Wo-Lung *(30 minutes)*
Primordial Magnetic Fields by Cosmic Inflation

17:50 Gao Sijie *(30 minutes)*
Validity of thin shell models

University of Nice – Sophia Antipolis

List of Participants

Armenia	
Aharonian, Felix	Max-Planck Institute
Harutyunyan Hayk	Byurakan Astrophysical Observatory
Sahakyan, Narek	La Sapienza University, Department Of Physics
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Lee, Hyun Kyu	Hanyang University
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Arnett, David	arizona university
Coppi, Bruno	Mit

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Mester John	STANFORD UNIVERSITY
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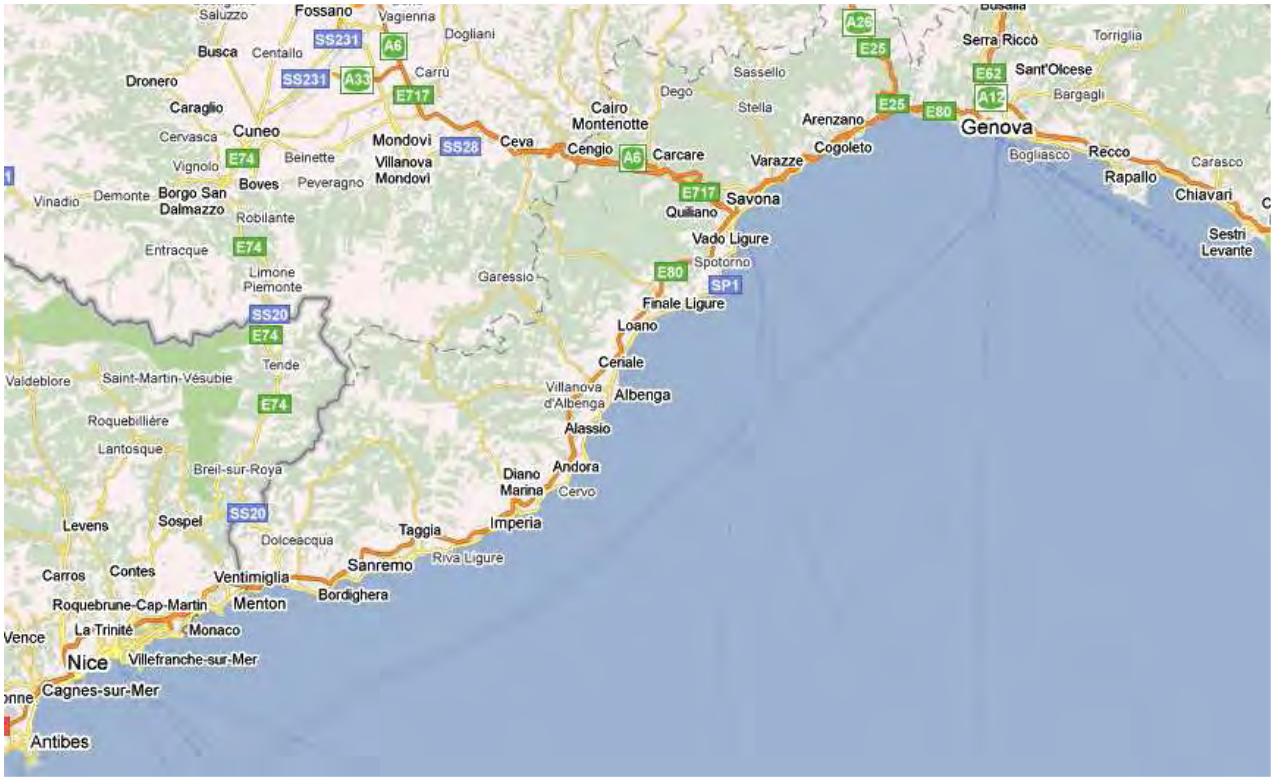


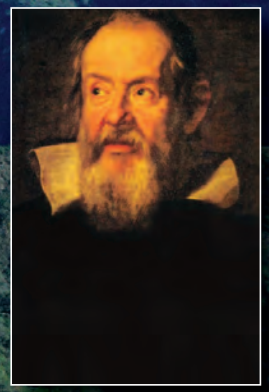
Sir Thomas Hanbury

Thomas Hanbury was born in Clapham and went out to Shanghai as a young man at the height of the Opium Wars to make his fortune. But unlike most of his compatriots Hanbury was a Quaker of high moral principle who thought the British treated the Chinese appalingly and wasn't afraid to stand up for what he thought was right. The Chinese came to adore him, since he did everything he could to help and support them. The British were less keen, but he was so successful (and stubborn) they had to listen to what he said. Having made his money, Hanbury then got married and retired to the Italian Riviera where he set about creating a fantastic garden called La Mortola, one of the finest in Europe.

据《上海地方志》记载,汉壁礼,
英国人。1853年来华，在上海与人合开宝威汉壁礼洋行，经营房地产致富。1865年当选为公共租界工部局董事，对公共事业十分关注。1871年捐资创办拥有] 0间房屋的欧亚混血儿学校，教育欧亚旅沪混血儿，并成立一个委员会管理该学校。后又创办水手饭店。同年离沪到法国定居。1882年，提出以只收欧亚混血儿及以其名字命名为条件，将所办学校赠给工部局，工部局以还不具备接收条件为由予以回绝，但开始对该学校实行年度资助。1889年，将欧亚混血儿学校与新成立的儿童之家合并，成立汉壁礼蒙养学堂。1890年，公共租界工部局接收该学堂，改为汉壁礼公学，成为工部局第一所局立公学。1891年，又在蓬路为该校修建新校舍。而该校学生也从欧亚混血儿扩大至多个国籍的贫困儿童。1893年曾回上海，捐助5000两给慈善机关，工部局因此以其名字命名了界内一条马路。


RAPHAEL BISCHOFFSHEIM

The Third GALILEO-XU GUANGQI meeting 第三届 伽利略-徐光启 会议



Beijing - China
October 11-15, 2011

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BRAZIL Braga João • Malheiro Manuel • Novello Mario
CHILE Bunster Claudio
CHINA (Beijing) Cao Zhen • Chen Jiansheng • Cheng KongSheng • Chu Yao-Quan • Cui Xiangqun • Dai Zigao • Feng Long Long • Gao Yi-Hong • He Ping • Jing Yipeng • Li Miao • Li Tipei • Li Xiang-Dong • Lin Douglas • Lu Ju-Fu • Lu Tan • Mao Shude • Mo Houjun • Qu Qinyue • Wang Bin • Wang Jinxiu • Wang Lifan • Wang Tinggui • Wang Xiang-Yu • Wang Zenru • Wu Xiang Ping • Wu Yue-Liang • Xing Zhizhong • Yan Jun • Yuan Feng • Zhang Jialu • Zhang Xinmin • Zhang Yang • Zhao Gang **Co-Chair** • Zhou Youyuan • Zhu Zonghong
CHINA (Hualiang) Lee Dashin
CHINA (Hsinchu) Chang Hsiang-Kuang
CHINA (Taipei) Chen Pisin • Lee Wolung • Ng Kin-Wang
CROATIA Slaus Ivo
ESTONIA Einasto Jaan • Gert Hutsi
FRANCE Boer Michel • Chardonnet Pascal • Coullet Pierre • Damour Thibault • Mignard François • Puget Jean-Loup • Vakili Farrokh
GERMANY Kleinert Hagen • Kramer Michael • Nicolai Hermann • Trümper Joaquim
INDIA Chakrabarti Sandip K.
ISRAEL Piran Tsvi • Waxman Eli
ITALY Amati Lorenzo • Battiston Roberto • Belinski Vladimir • D'Ettorre Piazzoli Benedetto • De Bernardis Paolo • Della Valle Massimo • Falciano Speranza • Feroci Marco • Filippi Simonetta • Frontera Filippo • Moschella Ugo • Quevedo Fernando • Petronzio Roberto • Ravi Sheth • Renieri Alberto • Ruffini Remo **Co-Chair** • Ruocco Giancarlo • Vacchi Andrea • Vereshchagin Gregory • Vissani Francesco • Xue Shesheng
JAPAN Nagataki Shigehiro • Sasaki Misao • Sato Humitaka • Sato Katsuhiko
KAZAKHSTAN Abishev Medeu • Abdildin Meirkhan
KYRGYZSTAN Gurovich Victor
MEXICO Quevedo Hernando
NETHERLAND 'tHooft Gerard
NEW ZEALAND Kerr Roy • Wiltshire David
NORTH KOREA Kim Jik Su
PAKISTAN Qadir Asghar
RUSSIA Aksenov Alexey • Bisnovatyi-Kogan Gennady • Chechetkin Valery • Popov Vladimir
SLOVENIA Čadež Andrej
SOUTH KOREA Kim Sang Pyo • Kim Sung Won • Lee Bum Hoon • Lee Chul Hoon • Lee Hyun Kyu • Lee Hyung Won • Song Doo Jong
SWEDEN Rosquist Kjell
SWITZERLAND Ting Samuel C. C.
UNITED KINGDOM Willingale Richard
USA Arnett David • Ashtekar Abhay • Bloom Joshua • Coppi Bruno • Everitt Francis • Giacconi Riccardo • Hu Bei-Lok Bernard • Jantzen Robert • Jones Christine • Madey John • Misner Charles • Mountain Matt • Whitcomb Stan
UZBEKISTAN Zalaletdinov Roustam
VATICAN STATE Funes Jose Gabriel
VIETNAM Hoang Ngoc Long

LOCAL ORGANIZING COMMITTEE

Jinxin Hao **Chair** • Chengmin Zhang • Hu Zhan • Jin Zhu • Shuangnan Zhang • Xiangping Wu • Xiaochun Sun • Xuebing Wu • Xuelei Chen • Yuqing Lou • Zhu Zonghong

3rd Galileo-XuGuangqi Meeting
11-15 October 2011 – Beijing (China)
Morning Sessions

Tuesday 11th	Wednesday 12th	Thursday 13th	Friday 14th	Saturday 15th
X and Gamma Ray Astrophysics	**Gravitational waves and precision tests of general relativity**	**General Relativity, GRBs, neutron star and supernovae**	**Astroparticle Physics**	**Cosmology, Large Scale Structure and Dark Matter**
Multifunctional Hall	*Multifunctional Hall*	*Multifunctional Hall*	*Multifunctional Hall*	*Multifunctional Hall*
Chairs: Frontera Filippo Li Tipei	Chairs: Blair David Zhu Zong Hong	Chairs: Boer Michel Zhang Bing	Chairs: Battiston Roberto Chen Pisin	Chairs: Chen Xuelei Della Valle Massimo
Opening Speech Ruffini Remo - Li Tipei Yan Jun - Zhao Gang Hao Jinxin - Xue She-Sheng *Group Photo*				
9:10-9:40	9:00-9:30	8.30-9.00	9:00-9:30	9:00-9: 30
Frontera Filippo	**Wen Linging**	**Zhang Bing**	**Pisin Chen**	**Wang Lifan**
5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion
9:45-10:15	9:35-10:05	9.05-9.35	9:35-10:05	9:35-10:05
Li Tipei	**Yanbei Chen**	**Della Valle Massimo**	**Battiston Roberto**	**Bernabei Rita**
5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion
10:20-10:30	10:10-10:30	9.40-10.00	10:10-10:30	10:10-10:30
Coffee Break				
10:30-11.00	10:30-11.00	10.00-10.30	10:40-11.10	10:30-11.00
Shuangnan Zhang	**Takaaki Kajita**	**Ruffini Remo**	**Fiorini Ettore**	**Ji Xiangdong**
5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion
11.05-11:35	11.05-11:35	10.35-11.05	11.15-11:45	11.05-11:35
Tavani Marco	**Luo Jun**	**Dai Zigao**	**Wang Yifang**	**Casolino Marco**
5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion
11:40-12.10	11:40-12.10	11.05-11.35	11:50-12.20	11:40-12.10
Sinnis Gus	**Everitt Francis**	**Rueda Jorge**	**Westerhoff Stefan**	**De Bernardis Paolo** (skype connection)
5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion	5 minutes discussion
			12.25-12.50	
			Cao Zhen	
Lunch Break				
	Public Lecture Prof. David Blair Beijing University - 7pm		**Public Lecture** Prof. Everitt Francis Tsinghua Univ. - 7.30pm	**Public Lecture** Prof. Ruffini Remo Peking University – 7pm

Tuesday 11th October
X and Gamma Ray Astrophysics

Frontera Filippo
University of Ferrara and INAF/IASF-Bologna
Title*: Prospects for Gamma-ray Focusing Telescopes beyond 70/100 keV*
Abstract: I will report on the prospects for focusing telescopes in the soft gamma-ray band (>70/100 keV). These telescopes could open a new window in X-ray astronomy. Indeed the current instrumentation is background limited and many issues that could be solved with deep observations in this band are still open.
I will also discuss these issues and the scientific prospects of the development activity in our Department devoted to Laue lenses for space astrophysics.

Li Tipei
IHEP Chinese Academy and Tsinghua University
Title*: Scientific objectives of the HXMT mission*
Abstract: The hard X-ray modulation telescope HXMT is the first dedicated astronomy satellite in China launched around 2015. HXMT is an assembly of a high energy detector HE (20-250 keV), medium energy detector ME (5-30 keV), and low energy detector LE (1-15 keV). All the three detectors are slat-collimated with similar field of view, comprising an observatory to perform high signal-to-noise ratio pointing observations of high-energy sources in a wide band. HXMT can also perform imaging by an all-sky scan survey. In this talk I will introduce the scientific objectives of the HXMT mission.

Zhang Shuangnan
IHEP Chinese Acandemy and Tsinghua University
Title*: Prospects for future High Energy Astrophysics missions in China*
Abstract: In this report, I will first summarize briefly the strategic goal and programs of China's near and long space astronomy program, then describe the current space high energy astrophysics missions to be launched within the next five years, including its first space astronomy satellite the Hard X-ray Modulation Telescope (HXMT) mission, the Space Viable Object Monitor (SVOM), the space dark matter detection satellite, and the gamma-ray burst polarization observation experiment (POLAR) onboard China's spacelab. I will finally outline China's future plan on space astronomy program, including space astronomy satellites and instruments on China's space station.

Tavani Marco
INAF-IASF Roma and Università di Roma "Tor Vergata"
TBD

Sinnis Gus
Los Alamos National Laboratory
Title*: TeV Astrophysics with the Milagro and HAWC Arrays*
Abstract: Ground-based gamma-ray astronomy has historically implemented two dramatically different techniques. One method employs Imaging Atmospheric Cherenkov Telescope(s) (IACT) that detect the Cherenkov light generated in the atmosphere by extensive air showers. The other method employs particle detectors that directly detect the particles that reach ground level - known as Extensive Air Shower (EAS) arrays. Until recently, the IACT method had been the only technique to yield solid detections of TeV gamma-ray sources. Utilizing water Chernkov technology, Milagro, was the first EAS array to discover new gamma-ray sources and demonstrated the power of and need for an all-sky high duty cycle instrument in the TeV energy regime. The transient nature of many TeV sources, the enormous number of potential sources, and the existence of TeV sources that encompass large angular areas all point to the need for an all-sky, high duty-factor instrument with even greater sensitivity. In this talk I will discuss results from the Milagro Observatory and plans for the HAWC Observatory at the volcan Sierra Negra in Mexico

Wednesday 12th October
Gravitational waves and precision tests of general relativity

Wen Linqing
University of Western Australia
Title*: Synergy of Gravitational wave and electromagnetic astronomy in the era of advanced detectors*
We are expecting the first detection of gravitational waves in the next decade. With the recent development of advanced detection technology, we will be able to provide early warnings of gravitational wave events to alert electromagnetic telescopes for prompt follow-up observations. I'll review the scientific motivation and current effort in this aspect, and discuss the role of the existing and future detector network.

Yanbei Chen
University of Western Australia
Gravitational wave detectors as quantum instruments

Takaaki Kajita
University of Tokyo
Title*:The Large scale Cryogenic Gravitational Wave Telescope (LCGT) Project*
Abstract: Large scale Cryogenic Gravitational Wave Telescope (LCGT) is a project for the direct detection of gravitational wave signals. It will be a interferometer with 3km * 3km arms. It will be located underground Kamioka, Japan. In order to achieve a high sensitivity, LCGT will use cryogenic temperature mirrors. The construction has started in 2010. It is expected to start the observation in 2017 with the full detector setup. In this talk, I will report the design and the construction status of LCGT.

Luo Jun
Huazhong University of Science and Technology
TBD

Everitt Francis
Stanford University - W.W. Hansen Experimental Physics Laboratory
Title: *Frame-dragging, Cryogenics, and Space: The Gravity Probe B Experiment*
Abstract: Probe B experiment, launched in 2004, displays both along with the fascinating intersection of physics and engineering in a real-life flight experiment. This critical collaboration has produced 86 Stanford doctorates and 14 from other universities, over an extraordinary range of topics. According to Einstein, a gyroscope in a 640 km polar orbit around the Earth is subject to two non-Newtonian precessions, a 6.6 arc-s/yr geodetic effect in the plane of the orbit and a 0.039 arc-s/yr frame-dragging effect due to the rotation of the Earth. Gravity Probe B measured both. To determine these tiny effects required a gyroscope 107 times better than the best Earth-based inertial navigation gyroscopes and a reference telescope 103 times better than any prior star tracker. The talk will describe the unique combination of cryogenics and space technologies that made this possible, and also some on-orbit surprises and how they were overcome. Space makes new physics possible in 8 distinct ways. GP-B has been the largest of a series of NASA missions in Fundamental Physics. The flight experience will inform the development of several important future missions including LISA and STEP

Thursday 13th October
General Relativity, GRBs, neutron star and supernovae

Zhang Bing
University of Nevada Las Vegas
From Swift to Fermi: A paradigm shift in GRB modeling

Della Valle Massimo
Osservatorio di Capodimonte
Title*: The Empirical Grounds of the Supernova-Gamma-ray Burst Connection*
Abstract: I'll review the observational status of the Supernova and Gamma-ray Burst connection including the recent observations of SN 2010bh/GRB 100316D

Izzo Luca
University of Rome "Sapienza"
TBD

Dai Zigao
Nanjing University
Gamma-Ray Bursts: Early Afterglows, High-Energy Emission, and Cosmology

Rueda Jorge
University of Rome "Sapienza" and ICRANet
Title*: On the Einstein-Maxwell-Thomas-Fermi equations of equilibrium for white dwarfs and neutron stars*
Abstract: Recent results on the formulation of a self-consistent theory for white dwarfs and neutron stars including strong, weak, electromagnetic, and gravitational interactions are outlined. First, the extension of the Feynman-Metropolis-Teller approach of the compressed atom to relativistic regimes is formulated and applied to white dwarfs within the framework of general relativity. Based on such a treatment, we go one step further by proving the impossibility of imposing the condition of local charge neutrality in a self-gravitating system of degenerate neutrons, protons and electrons in beta-equilibrium. The coupled system of the general relativistic Thomas-Fermi equations and the Einstein-Maxwell equations are constructed superseding the traditional Tolman-Oppenheimer-Volkoff equations. Special emphasis is given to the equilibrium conditions represented by the constancy of the general relativistic chemical potentials, for short Klein potentials, both for zero and finite temperatures. It is also shown the extension of the theory including strong interactions between nucleons through the relativistic extended Walecka model. This treatment represents an essential step to the correct formulation of a self-consistent relativistic field theoretical approach of neutron stars. The implications of these new Einstein-Maxwell-Thomas-Fermi equations of equilibrium on the structure and consequently on the astrophysics of neutron stars are also presented.

Friday 14th October
Astroparticle Physics

Cao Zhen
IHEP Chinese Academy
Title: *ARGO-YBJ: a Multi-purpose Experiment Operation for 5 Years*
Abstract: In last 5 years since the ARGO-YBJ experiment was turned on for cosmic ray data taking in 2006, many progresses have been made on observation of galactic gamma ray sources, long term monitoring on extragalactic gamma ray sources for multi-wavelength analysis, measurements of cosmic ray energy spectrum, anisotropy of arrival directions, interaction cross section between proton and atmospheric nuclei, estimates of the IMF intensities and upper limit setting for the anti-proton flux, etc. In this report, an overall summary will be delivered about all the measurements and potential developments. A future experiment, LHAASO, will be briefed as a natural extension of all the researches with greatly enhanced sensitivities in 5-10 years

Battiston Roberto
University of Perugia and INFN
Title: *Astroparticle physics from space: status of the AMS experiment*
Abstract: One century after the discovery of Cosmic Rays the study of cosmic radiation still carries intact its potential for new fundamental physics discoveries. During the last decade very sophisticated, state of the art satellites as well as new types of powerful ground based telescopes and underground detectors have produced a wealth of new results and some puzzling hints for new physics. I will review the status of in the field of astroparticle physics, discussing the potential of the recently launched Alpha Magnetic Spectrometer, the large observatory installed on the ISS, to search for the existence of nuclear antimatter and to study the origin of dark matter.

Wang Yifang
IHEP Chinese Academy
Daya Bay reactor neutrino experiment

Fiorini Ettore
University of Milan
Title: *Neutrino Physics and Astrophysics*
Abstract: The new results on oscillations of solar, atmosheric, reactor and accelerator neutrinos will be breafly reported with their consequences on the existence of massive neutrinos. The present results on the limit on neutrino mass based on cosmology and expecially on single and double beta decay will be presented and discussed together with an overview of running and planned experiments. Special relevance will be given to experiments aimed to reveal the Dirac or Majorana nature of the neutrino

Westerhoff Stefan
University of Wisconsin-Madison
Title*: New Results from the IceCube Neutrino Telescope*
Abstract: IceCube is a cubic kilometer-scale neutrino telescope located at the geographic South Pole. The detector comprises 5,160 photomultipliers deployed on 86 strings at depths of 1.5-2.5 km below the polar ice sheet. It uses the clear Antarctic ice as a Cherenkov medium to detect high-energy cosmic neutrinos from the most violent astrophysical sources. The sensitivity of IceCube to low-energy neutrinos is enhanced by DeepCore, a dense sub-array of 6 strings in the center of the detector.
The IceCube detector is also complemented by IceTop, a square-kilometer air shower array deployed on the surface of the ice sheet above IceCube. The construction of IceCube was completed in December 2010, but measurements with the partially-constructed detector have been ongoing for several years. We present initial results of searches for neutrinos from astrophysical sources such as supernova remnants, active galactic nuclei, and gamma ray bursts, for anisotropies in cosmic rays, and constraints on the dark matter scattering cross section

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Saturday 15th October
Cosmology, Large Scale Structure and Dark Matter

De Bernardis Paolo
University of Rome
Title*: CMB observations: Planck and beyond.*
Abstract: Current observations of the Cosmic Microwave Background include extremely sensitive surveys of the polarization of the CMB, and sensitive observations of the fine-scale anisotropy of the CMB. These allow to test the most striking extensions of the hot Big Bang model, including the hypotheses of inflation and dark energy .
After a general description of the status of the field, with a detailed description of the Planck survey and its early results, we will focus on a few new ideas, exploiting the full information encoded in ultradeep maps of CMB anisotropy and polarization. These include differential spectroscopy of secondary CMB anisotropy, and precision measurements of CMB polarization, both requiring the most advanced experimental methods and detector, space and analysis technologies.

Casolino Marco
RIKEN - Japan and INFN – Italy
Latest results on cosmic ray particles and antiparticles from PAMELA experiment
Abstract: PAMELA is a satellite-borne magnet spectrometer detector orbiting the Earth on board the Russian Resurs-DK1 satellite since 2006. It is devoted to the high precision measurements of cosmic ray particle and antiparticles of galactic, solar and terrestrial origin. In this talk we will discuss the recent measurements of electrons, positrons and antiprotons and their relevance for indirect dark matter search as well as cosmic rays production and propagation. Also data on Proton and Helium nuclei - which exhibit have different spectral indexes and suggest that the two particles undergo different acceleration mechanisms or are accelerated at different sites will be presented.

Bernabei Rita
Universita' di Roma Tor Vergata

Title: *Results from DAMA/LIBRA and perspectives*

Abstract*:* The DAMA/LIBRA set-up (about 250 kg highly radiopure NaI(Tl)) is running at the Gran Sasso National Laboratory of the I.N.F.N.. The results obtained by exploiting the model independent annual modulation signature for the presence of Dark Matter (DM) particles in the galactic halo during the first six annual cycles (exposure of 0.87 ton x yr) will be discussed. The cumulative exposure with those previously released by the former DAMA/NaI is 1.17 ton × yr, corresponding to 13 annual cycles. The confidence level for the observed effect is 8.9 sigma and the data satisfy all the many peculiarities of this DM model independent signature. No systematics or side processes able to account for the measured modulation amplitude and to simultaneously satisfy all the many requirements of the signature have been found or suggested by anyone over more than a decade. Data have already been collected during a further annual cycle before the realization of a new upgrade of the DAMA/LIBRA set-up, which occurred at end of 2010. Presently DAMA/LIBRA is in data taking in the new configuration.
Results, implications and experimental perspectives will be summarized.

Wang Lifan
Texas A&M University - NAOC
TBD

Ji Xiangdong
University of Maryland and Beijing University
Direct Dark Matter Research on Panda X project in Sichuan

Tuesday 11th October 2011				
Gravitational waves and precision tests of general relativity	**General Relativity, GRBs, neutron star and supernovae**	**Cosmology, Large Scale Structure and Dark Matter**	**Solar astrometry and grand minima of activity**	**History of Astronomy and Astrophysics**
Room A508	**Room A135**	**Room A208**	**Room A308**	**Room A408**
Topic: *Gravitational Wave Detectors*	Topic: GRBs and S.N.	*Topic:* *Early Universe*		
Chairs: Chunnong Zhao Cao Junwei	Chair: Bianco Carlo Luciano	Chair: Belinski Vladimir	Chairs: Sigismondi Costantino Wang Jinxiu	Chair: Sun Xiaochun
14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.15
Stefan Gossler	**Boer Michel** invited	**Gionti Gabriele** invited	**Shaolan Bi**	**Shi Yunli**
				14.15-14.30
				Sun Xiaochun
14.30-15.00	14.30-15.00	14.30-15.00	14.30-15.00	14.30-14.45
Stuart Reid	**Enwei Liang** invited	**Rosquist Kjell** invited	**Jie Jiang**	**Wang Guangchao**
				14.45-15.00
				Niu Weixing
15.00-15.30	15.00-15.30	15.00-15.30	15.00-15.30	15.00-15.15
Catherine Nary Man	**Lorenzo Amati** invited	**Wu Xuebing** invited	**Yihua Yan**	**Remo Ruffini**
				15.15-15.30
				Richard Strom
Coffee Break 20 min	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*
15.50-16.05	15.50-16.20	15.50-16.20	15.50-16.20	15.50-16.05
Yanbei Chen	**Xiangyu Wang** invited	**Sudarsky, Daniel**	**Yuanyong Deng**	**Sigismondi Costantino**
16.05-16.20	16.20-16.35	16.20-16.35	16.20-16.50	16.05-16.20
Haibo Wang	**Penacchioni Ana**	**Belinski Vladimir**	**Guiping Zhou**	**Fung Kam-wing**
16.20-16.35	16.35-16.50	16.35-16.50	16.50-17.20	16.20-16.35
Chunnong Zhao	**Yu Wang**	**Micol Benetti**	**Sigismondi Costantino**	**Changbom Park**
16.35-16.50	16.50-17.05	16.50-17.05	17.20-17.50	16.35-16.50
Vetrano Flavio	**Irene Arkhangelskaja**	**Scardigli Fabio**	**A. Raponi and C. Sigismondi**	**David Valls-Gabaud**
			17.50-1818.20	
	Poster Session: He Haoning, Lin Ruoyu, Liu Tong Shao Lang, Weng Dehua, Xue, Li, Yiqing Lin, Zhao, Xiaohong		**Jin, Chunlan**	16.50-17.05
			Discussions and Concluding Remarks	**Yang Hong-Jin**

Gravitational Wave Detectors

Gossler Stefan: The AEI 10m Prototype Interferometer
Stuart Reid (1) Suspension and coating thermal noise investigations at Glasgow (2) The Einstein Telescope: a third generation gravitational wave observatory in Europe
Chunnong Zhao: Harnessing three mode interactions in gravitational wave detectors for stability control and quantum measurement
Mat Evans: Advanced gravitational wave detectors
Jerome Degallaix: Advanced Virgo
Yanbei Chen: Advanced interferometer configurations: beyond the second generation
Haibo Wang. Quantum measurement experiments at BNU
Vetrano Flavio: Principles of Gravitational Waves detection through atom interferometry and a look ahead

GRBs and S.N.

Enwei Liang: Emission components in Optical Afterglows and their relations to the prompt gamma-rays and X-ray afterglows
Amati Lorenzo: Cosmology with Gamma-Ray Bursts
Arkhangelskaja Irina: Long GRB with additional high energy maxima after the end of the low energy t90 intervals

Early Universe

Gionti Gabriele: First Order Regge Calculus and Spin Foam Formalism
Rosquist Kjell: Gravitational acceleration and cosmic jets
Wu Xuebiing: Finding Missing Quasars in the Redshift Desert
Sudarsky, Daniel: The unsolved problem of emergence of the seeds of cosmic structure during inflation
Belinski Vladimir: Basic facts on the cosmological singularity
Scardigli Fabio: Emergence of Special and Doubly Special Relativity
Redkov Viktor: Spin 1/2 Particle In The Field Of Dirac String On The Background Of De Sitter Space-Time

Solar Astrometry and Grand Minima of Activity

Raponi Andrea and Sigismondi Costantino: Solar diameter, Limb Darkening Function and Eclipses
Sigismondi Costantino: Clavius Project on solar diameter measurements groundbased
Guiping Zhou: CME source region
Jie JIANG: Solar dynamo and the grand solar minima
Shaolan Bi: Updated solar model with new abundance, rotation & magnetic field
Yihua Yan Chinese Radioheliograph
Yuanyong Deng Chinese giant solar telescope

History of Astronomy and Astrophysics

Ruffini Remo: Events in the collaboration with China on relativistic Astrophysics
Sigismondi Costantino: Gerbert of Aurillac: Astronomy and Science in the tenth century in Europe
Sun Xiaochun: Study of the Taosi Prehistoric Observatory in Lifeng, China
Valls-Gabaud David: The early history of gravitational lensing
Yang Hong-Jin: Astronomical Aspects of Korean Dolmens

Wednesday 12th October 2011			
X and Gamma Ray Astrophysics	**Gravitational waves and precision tests of general relativity**	**General Relativity, GRBs, neutron star and supernovae**	**General Relativity, GRBs, neutron star and supernovae**
Room A208	**Room A308**	**Room A408**	**Room A508**
Topic: *Theory and Modeling of X-/gamma-ray emission from BHs and NSs*	Topic: Gravitational Wave Theory and Data Analysis	Topic: Black Holes, Neutron Stars and White Dwarfs	Topic: Relativistic MHD Flows and Electron-Positron Plasma
Chair: Feng Yuan	Chair: Linqing Wen	Chair: Rueda Jorge	Chairs: Lou Yuqing
14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30
Hua Feng invited	**Maurice van Putten** invited	**Renxin Xu** invited	**Lou Yuqing** invited
14.30-15.00	14.30-15.00	14.30-15.00	14.30-15.00
Xiangdong Li invited	**Chris Belczynski** invited	**Han, JinLin**	**Xue She-Sheng** invited
15.00-15.30	15.00-15.30	15.00-15.30	15.00-15.30
Wenfei Yu invited	**Nickolas Fotopoulos** invited	**Ali Taani** invited	**Bianco Carlo Luciano**
Coffee Break 20 min	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*
15.50-16.20	15.50-16.20	15.50-16.20	15.50-16.20
Feng Yuan invited	**Sergio Frasca** invited	**Zhang, Shuang-Nan**	**Izzo Luca**
16.20-16.50	16.20-16.40	16.20-16.35	16.20-16.50
Andrzej Zdziarski invited	**Cao Junwei** invited	**Zhao Huihua**	**Muccino Marco**
16.50-10.05	16.40-17.00	16.35-16.50	16.50-17.20
Ma Renyi	**Lindy Blackburn** invited	**Zhou, Xia**	**Alberto Benedetti**
17.05-17.20	17.00-17.20	Poster Session: Meirkhan Abdildin Jing Wang Long Jiang Atfah Mussa U.V. Seshavatharam	17.20-17.50
Qiao Guojun	**Drew Keppel** invited		**Wang, Li-Le**
	17.20-17.40		**Round Table Discussions on GRBs**
	Zhihui Du invited		
	17.40-18.00		
	Wang Yan		

Theory and Modeling of X-/gamma-ray emission from BHs and NSs

Hua Feng: X-ray Modeling of Ultraluminous X-ray Sources
Xiangdong Li: Contribution of X-ray binaries to the evolution of late-type galaxies: evolutionary population synthesis simulations
Wenfei Yu: Black hole X-ray Binaries: New Observational Perspective
Feng Yuan: An MHD model for the formation of episodic jets
Andrzej Zdziarski: X-ray and gamma-ray emission from jets in black-hole binaries
Ma Renyi: Fitting the Multi-wavelength Spectrum of IGR J17177-3656 with LHAF
Qiao Guojun: Radio and high-energy radiatio from normal and millisecond pulsars and the annular gap model

Gravitational Wave Theory and Data Analysis

Maurice Van Putten: Electromagnetic priors from black hole spindown in gravitational-wave searches from supernovae and long GRBs
Frasca Sergio: First generation GW interferometers: main results
Cao Junwei: Multivariate Classifiers for LIGO Data Analysis

Black Holes, Neutron Stars and White Dwarfs

Wu Renxin: Pulsars: Quark (cluster) Stars
Ali Taani: Accretion Induced Collapse of White Dwarfs As an AlternativeSymbiotic Channel to Millisecond Pulsar
Han Jinlin: The Sina-German 6cm polarization survey of the Galactic plan
Zhang Shuangnan: Evolution of the magnetic field of neutron stars and its possible implication to gravitational wave detection
Zhao Huihua: Neutron Star Mass & Radius and EOS
Zhou, Xia: Magnetic field decay and thermal evolution of neutron stars

Relativistic MHD Flows and Electron-Positron Plasma

Lou Yu-Qing: Relativistic Magnetohydrodynamic Pulsar Winds
Wang Li-Le: Dynamic Voids Surrounded by Shocked Conventional Polytropic Gas Envelopes

Friday 14th October 2011				
X and Gamma Ray Astrophysics	**Gravitational waves and precision tests of general relativity**	**General Relativity, GRBs, neutron star and supernovae**	**Astroparticle Physics**	**Cosmology, Large Scale Structure and Dark Matter**
Room A508	**Room A208**	**Room A135**	**Room A408**	**Room A308**
Topic: Galactic compact objects and supermassive black holes	Topic: Pulsar and Radio Astronomy	Topic: Black Holes, Neutron Stars and White Dwarfs	Topic: High Energy Cosmic Rays	Topic: CMB and Dark Energy
Chair: Frontera Filippo	Chairs: Zhang Chengmin Strom Richard	Chairs: Li Xiang-Dong Hyung Won Lee	Chair: Cao Zhen	Chair: Rosquist Kjell
14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30
Ioannis Georgantopoulos invited	**Zsolt Paragi** invited	**Rueda Jorge Armando** invited	**Stefan Westerhoff** invited	**Hyung Won Lee** invited
14.30-15.00	14.30-14.45	14.30-14.40	14.30-15.00	14.30-15.00
Roberto Gilli invited	**Huang Lei**	**Abdildin, Meirkhan** invited	**Marco Ricci** invited	**Lukierski, Jerzy Andrzej** Invited
	14.45-45-15.00			
	Han Jinlin			
15.00-15.30	15.00-15.15	14.40-15.10	15.00-15.30	15.00-15.30
Zhang Jin invited	**Tian Wenwu**	**Kuantay Boshkayev** invited	**Shoushang Zhang** invited	**Zhang Yang** invited
	15.15-15.30			
	Wang Na & Yuan Jianping			
Coffee Break 20 min	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*
15.50-16.05	15.50-16.05	15.50-16.20	15.50-16.15	15.50-16.20
Wang Wei	**Luca Naso**	**Riccardo Belvedere**	**Jing Huang**	**Eloisa Menegoni**
16.05-16.35	16.05-16.35	16.20-16.30	16.15-16.40	16.20-16.35
Paolo Giommi	**Zhu Ming**	**Muhammad Sharif**	**Giuseppe Di Sciascio**	**Alessandor Melchiorri** Skype connection
16.35-17.05	16.35-17.05	16.30-16.40	16.40-17.05	16.35-16.50
Sahakyan Narek	**Guojun Qiao**	**Ghulam Abbas**	**Denis Bastieri**	**Bernardo Fraga**
17.05-17.35	17.05-17.20	16.40-16.50	17.05-17.30	16.50-17.05
Jian-Min Wang	**Zhang Chengmin**	**Kausar, Hafiza Rizwana**	**Gaku Mitsuka**	**Tipei Li**
	17.20-17.35	16.50-17.50	17.30-17.55	
	Yan Wenming	**Open Discussions On AXP and SGR** **Boshkayev, Renxin Xu, Rueda, Ruffini**	**Qiang Yuan**	
	17.35-17.50	Poster Session: Nurzada Beissen Medeu Abishev Sheyse M. de Carvalho	17.55-18.20	
	Wang Wei		**Siming Liu**	

Galactic compact objects and supermassive black holes

Georgantopoulos Ioannis: X-ray spectroscopy for the detection of highly obscured AGN
Gilli Roberto: The cosmological evolution of SMBH as traced by X-ray observations
Zhang Jin: Radiation Mechanisms and Physical Properties of TeV Active Galactic Nuclei
Wang Wei: Galactic 26Al 1.8 MeV gamma-ray surveys with INTEGRAL
Giommi Paolo: Multi-frequency observations of Blazars
Jian-Min Wang: Cosmological evolution of supermassive black holes

Pulsar and Radio Astronomy

Zsolt Paragi: Compact Objects Near and Far with the European VLBI Network
Huang Lei: Constraining The Flare Region For Sagittarius A* By 1.3mm Vlbi Measurements
Han JinLin: Pulsars as probes for ISM
Naso Luca: Magnetic field structure in accretion discs around neutron stars and consequences for the change of spin
Wang Na & Yuan Jianping: A decade of pulsar timing observations at Nanshan
Guojun Qiao: Radio and high-energy radiatio from normal and millisecond pulsars and the annular gap model
Yan Wenming: Polarization observations of 20 millisecond pulsars
Wang Wei: Distance of Gamma-ray Pulsars

Black Holes, Neutron Stars and White Dwarfs

Malheiro Manuel: SGRs and AXPs: White Dwarf Pulsares versus Magnetars
Abdildin, Meirkhan: On the unity of acceleration field and vortex field in GR mechanics
Belvedere Riccardo: Mass, Radius and Moment of Inertia of Neutron Stars
Sharif Muhammad: Tunneling of Dirac Particles
Ghulam Abbas: Perfect Fluid Accretion by the Interior of a Black Hole
Authors: M. Sharif and G. Abbas
Abstract: This paper deals with the perfect fluid accretion by the interior of a black hole in conformal gravity. We derive equation of motion for the accretion process by using energy conservation, Bernoulli equation and mass flux conservation equation. The conditions for critical accretion are explored. It is found that the mass of black hole increases due to perfect fluid (satisfying null energy condition) accretion. There exist two critical points that lie in the exterior of horizons. Results for accretion onto the Schwarzschild black hole can be recovered.
Kausar, Hafiza Rizwana: Shearfree Gravitational Collapse in f(R) theory
This paper is devoted to study shearfree fluid collapse in modified f(R) gravity. We assume stars with anisotropic fluid distribution which undergoes dissipation in the form of heat flow, null radiation and shearing viscosity. The vanishing of shear tensor plays an important role in self-gravitating system and appearance of naked singularity. We investigate some solutions in f(R) theory under the assumption shearfree and discuss dynamical instability of spherically symmetric fluid distribution

High Energy Cosmic Rays

Westerhoff Stefan: Observation of Anisotropy in the Arrival Directions of Galactic Cosmic Rays with IceCube
Ricci Marco: The JEM-EUSO Mission
Shoushang Zhang: Hybrid measurement of CR light component spectrum by using ARGO-YBJ and WFCTA
Di Sciascio Giuseppe: Observation of cosmic ray anisotropy with ARGO-YBJ
Gaku Mitsuka: LHCf results and their relevance for the HECR physics
Siming Liu: Particle Acceleration in SNRs

CMB and Dark Energy

Hyung Won Lee:Evolution of distribution function for cosmological neutrino
Lukierski, Jerzy Andrzej: Generalized cosmological term from Maxwell symmetries
Zhang Yang: Analytic spectra of CMB anisotropies and polarization
Menegoni Eloisa: Constraining Variations in the Fine Structure Constant from next survey experiment
Tafel Jacek: Static spherically symmetric black holes with scalar field
Liu Hao: Current and future CMB data processing
Darabi Farhad: Power-law solutions in f(G) gravity

Saturday 15th October 2011				
X and Gamma Ray Astrophysics	**Gravitational waves and precision tests of general relativity**	**General Relativity, GRBs, neutron star and supernovae**	**Astroparticle Physics**	**Cosmology, Large Scale Structure and Dark Matter**
Room A308	**Room A508**	**Room A135**	**Room A208**	**Room A408**
Topic: Instrumentation and future missions in X-/gamma-ray astrophysics	Topic: Precision Measurements and Fundamental Physics	Topic: GRBs and S.N.	Topic: Dark Matter And UHE Cosmic Rays	Topic: Large Scale Structure
Chair: Fangjun Lu	Chairs: Francis Everitt	Chair: Wang Xiang-Yu	Chairs: Ji Xiangdong Bernabei Rita	Chairs: Hu Zhan
14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30
Enrico Virgilli invited	**Tartaglia Angelo** invited	**Siutso Ivan** invited	**Scopel Stefano** invited	**Zheng Zheng** invited
14.30-15.00	14.30-14.45	14.30-15.00	14.30-15.00	14.30-15.00
Vincenzo Liccardo	**Long-Sheng Ma**	**Han Wenbiao** Invited	**Qian Yue** invited	**Xuelei Chen** invited
	14.45-15.00			
	Hsien-Chi Yeh			
15.00-15.30	15.00-15.30	15.00-15.30	15.00-15.30	15.00-15.30
Webster Cash invited	**Peng Hui**	**Bruce Gendre** invited	**Gao Fei**	**Ma Renyi**
Coffee Break 20 min	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*	*Coffee Break 20 min*
15.50-16.20	15.50-16.05	15.50-16.20	15.50-16.10	15.50-16.20
Hiroshi Tsunemi invited	**Ming-Sheng Zhan and Jin Wang**	**Zhuo Li** invited	**Yang Changgen**	**Wang Tao**
16.20-16.35		16.20-16.50	16.10-16.30	16.20-16.50
Herman Marshall invited		**Jingsong Deng** invited	**Ma Xinhua**	**Keqiang Tang**
16.35-16.50		16.50-17.20	16.30-16.50	
Yongwei Dong		**Neda Bostani**	**M. Martinez**	
16.50-17.05		17.20-17.50		
Bobing Wu		**Gao Yang**		
		Poster session: Xiaohong Zhao, Xuhui Han, Fanying Wang, Liping Xin, Mouyuan Sun, Fuweng Zhang, Xionghong Cui, Zhaosheng Li		

INSTRUMENTATION AND FUTURE MISSIONS IN X-/GAMMA-RAY ASTROPHYSICS

Enrico Virgilli: Laue Lens development for high energy astrophysics: status and prospects
Webster Cash: X-ray Spectroscopy of Hot Gas in the Milky Way and Beyond
Herman Marshall: X-ray Polarimetric Astronomy in the United States
Yongwei Dong: The X-ray Timing and Polarization Mission Concept

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PRECISION MEASUREMENTS AND FUNDAMENTAL PHYSICS

Tartaglia Angelo: Measuring gravito-magnetic effects by means of ring lasers
Hsien-Chi Yeh: Inter-satellite laser interferometry for space science missions
Peng Hui: Ground-based Experiments to Test Gravito-magnetic Force
Ming-Sheng Zhan and Jin Wang: Towards a high precision test of the Equivalence Principle with a 10 m fountain atomic interferometer
Faridi Ayub: Isometric Embeddings on K-Surfaces in Schwarzschild Geometry
Mashoor Al-Wardat: A Method for estimating Parallaxes of VCBS: a modification to Hipparcos parallax measurements

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GRBs AND S.N

Bruce Gendre: Scientific striptease: GRB 110205A exposes the fireball model
Gao Yang: Relativistic Detonation and Deflagration Waves in Astrophysics
Siutsou Ivan: Kinetic relaxation timescales of mildly relativistic semidegenerate electron-positron plasma
Xiaohong Zhao: A simple explanation for the energy dependence of GRB pulse width

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DARK MATTER AND UHE COSMIC RAYS

Scopel Stefano: Searching for light neutralinos at the LHC
M. Martinez: Development of scintillating bolometers for dark matter searches
Qian Yue: Progress in CDEX and CJPL
Gao Fei: Searching for Dark Matter with XENON100
Yang Changgen: DarkSide - A dark matter search program with Depleted Argon
Ma Xinhua: Technical aspects in dark matter investigations
M. Martinez: Development of scintillating bolometers for dark matter searches

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LARGE SCALE STRUCTURE

Zheng Zheng: Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering
Wang Tao: CANDELS: SEDs and Morphologies of Massive galaxies at z ~2
Ma Renyi: Cosmological Shock Waves in the Large Scale Structure of the Universe

GX3 List of participants

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Kausar, Hafiza Rizwana	University of the Punjab, Lahore-Pakistan	Pakistan
Sharif, Muhammad	University of the Punjab	Pakistan
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Scopel, Stefano	Sogang University	South Korea
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Blackburn, Lindy	NASA GSFC	USA
Cash, Webster	University of Colorado	USA
Coutu, Stephane	Penn State University	USA
Everitt, Francis	Stanford University	USA
Fotopoulos, Nickolas	California Institute of Technology	USA
Marshall, Herman	MIT	USA
Peng, Hui	Invenlux Corp	USA
Sinnis, Gus	Los Alamos National Laboratory	USA
Westerhoff, Stefan	University of Wisconsin-Madison	USA
Zhang, Bing	University of Nevada Las Vegas	USA
Zheng, Zheng	University of Utah	USA
Gionti, Gabriele	Vatican Observatory-Specola Vaticana	Vatican City


THE THIRD GALILEO-XU GUANGQI MEETING

Prof. Guojun Qiao and prof. Remo Ruffini identified themselve from the photo taken more than thirty years ago, the first trip of prof. Ruffini to China. Prof. Qiao is now the head of Astronomy department, Peking University.

Matteo Ricci's tomb