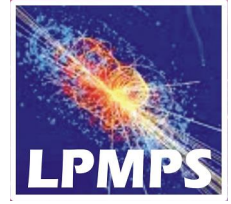




بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الجمهورية الجزائرية الديمقراطية الشعبية
وزارة التعليم العالي والبحث العلمي



The Third Algerian WORKSHOP ON ASTRONOMY & ASTROPHYSICS

الملتقى الجزائري الثالث في علم الفلك والفيزياء الفلكية

Constantine, Algeria, 16-17 June 2010

The LPMPS Laboratory, Physics Depart, Faculty of Exact Sciences, Mentouri Univ.
In cooperation with the CRAAG (Algiers), Batna Univ, and CTS/ASAL (Arzew)

With the Support of the DGRSDT

(www.astrocirta.com)

This Third Astrophysics Workshop held in the wake of the International Year of Astronomy 2009, as the continuation of both the Auresian Workshop held in 2008 at Batna and the Algiers Workshop held in 2009. It aims at strengthening the national astrophysicist community by being a meeting ground for exchange and for keeping updated on the latest advances in the various branches of astrophysics.

It aims also to be a support for the "Ecole Doctorale d'Astrophysique" as well as a spring board for the project of a National Astronomical Observatory to be set up in the Aurès region with both scientific and pedagogical vocations.

Scientific Committee

- | | |
|------------------------------------|---|
| - J.Mimouni, Mentouri.Univ. | - M.Ishak-Boushaki, U.of Texas at Dallas, USA |
| - N.Seghouani, CRAAG - Algiers | - P.Lipari, Roma U., Italy |
| - A.Bouldjedri, Batna Univ. | - I.Gavignaud, AIP, Postdam, Germany |
| - S.Kahlouche, CTS/ASAL- Arzew | - H.Abdelhaq, New Brunswick U., Canada |
| - N.Mébarki, Mentouri Univ. | - A. Bendib, USTHB, Algiers |
| - R.Attallah, Annaba Univ. | - R. Hajjar, Notre Dame Univ. Lebanon |
| - A.Fabian, Cambridge Univ., UK | - C.Boulahouache, CERN, Geneva |
| - N.Guessoum, American U., Sharjah | |
| - R. Ferlet, IAP - Paris | |

Themes

- | | |
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| - High Energy Astrophysics | - Extrasolar Astronomy |
| - Cosmology | - The Space Connection |
| - Solar and Stellar Physics | - Astronomy and Education |

Program

Wednesday 16th June Morning Session I Grand Auditorium Mhd Seddik Benyahia	
8:15 – 9:15	Registration of the participants
9:15 – 9:40	Opening Ceremony - Opening by the President of Mentouri Universiy - Allocution by Prof.H.Aourag, Directeur Général de la Recherche, MESRS - Welcome by the Dean of the Faculty of Exact Sciences, Mentouri Univ.
9:40 – 10:00	Trail blazing for the general audience, J.Mimouni, Mentouri U. <i>« Basic Cosmic Knowledge, Circa 2010 » (In Arabic; slides in English)</i>
10:00 – 10:35	Keynote Address by Prof.A.Fabian, Cambridge Univ. President of the Royal Astronomical Society <i>“ High Energy Astrophysics in general and the X-Ray sky in particular”</i>
10:50 – 11:20	Coffee break (& posters set up)
11:20 11:50	Seismology of the Sun and Stars, L.Gizon, MPI for SSR, Germany
12:00 12:30	Science with Robotic Observatories, M.Bauer, OHP, France
12:40 13:00	The Realm of Extrasolar Planets, R.Ferlet, IAP, Paris
13:10 – 14:25	Poster session I followed by Lunch
Parallel sessions A & B (Audio Visual Building – Chaabat Erassas campus) Afternoon Session II – A - High Energy, Cosmic Rays & Extra Galactic Astrophysics - The Space Connection	
14:25 – 14:50	GRBs Radiative Processes: Synchrotron And Synchrotron Self Absorption For A Power Law Particle Distribution with Finite Energy Range. <i>Mourad FOUKA, CRAAG, Algiers</i>
14:50 – 15:15	Probing the Inner Regions Around Black Holes <i>Abderahmen ZOGHBI, Cambridge Univ, UK</i>
15:15 – 15:40	How to obtain Lorentz an Doppler boosting factors for Blazars <i>Abderrahmane MEZAOU, Bab Ezzouar Univ. Algiers</i>

15:40 – 16:00	Coffee break
16:00 – 16:25	String fragmentation, diquark breaking, coplanar emission, consequences at LHC energy, <i>Mohamed Cherif TALAI, Annaba Univ.</i>
16:25 – 16:50	Anisotropy Signatures in Ultra High Energy Cosmic Rays <i>Sihem KALLI, Msila Univ</i>
16:50 – 17:15	Contribution to the Design of a Space Telescope <i>Mahdi RAHMANI, Sétif Univ.</i>
17:15 – 17:40	Geodynamical deformation using GPS data and the Kalman filter : preliminary results. <i>Said TOUAM, Mir R, Kahlouche , CTS- Arzew</i>
Afternoon Session II - B <i>Cosmology - I</i>	
14:25 – 14:50	Nonlinear Electrodynamics and the Variation of the Fine Structure Constant <i>Jean Paul MBELEK, CEA, Paris</i>
14:50 – 15:15	A Cosmological Model for the Poincaré Gauge Gravity and Dark Energy <i>Noureddine MEBARKI, Mentouri Univ.</i>
15:15 – 15:40	On Gravity Finite Propagation Speed <i>Zine el-abidine BENTALHA, Tlemcen Univ.</i>
15:40 – 16:00	Coffee break
16:00 – 16:25	New Phenomena in Non-commutative Field Theory and Emergent Spacetime Geometry, <i>Badis YDRI, Annaba Univ.</i>
16:25 – 16:50	An FRW like Cosmology and Dark Energy from a Non Commutative Seiberg-Witten Geometry, <i>Habib AISSAOUI, N. Mebarki, H. Bouhallouf</i>
16:50 – 17:15	Asymptotic Level State Density for Parasuperstring and (Parasuper) p-Branes: Thermodynamics and Black Holes, <i>Lamine KHODJA, Mentouri Univ.</i>
17:15 – 17:40	Gravity in Many Dimensions <i>Adel BOUCHAREB, Annaba Univ.</i>
18:00 – 19:00	Dinner
19:15	Return to the Hotel

Thursday 17th June

Morning Session III

Grand Auditorium Mhd Seddik Benyahia

8:15 – 8:45	Characterizing High Mass X-ray Binary Environments: MOST and Spitzer Space Telescope Observations, Gordon SARTY , Saskatchewan Univ. Canada
8:55 – 9:25	Disk Galaxy Evolution since $z=1$, Asmus BOEHM , Inst. of Astro- and Particle Physics, Austria
Observation Techniques & Observatories	
9:35 – 9:55	Techniques Associated with Robotic Observatories Alain KLOTZ , Obs. Haute Provence (OHP), France
10:05 – 10:50	Coffee break & Poster Session II
10:50 – 12:00	<u>Round Table on The Aurès Observatory Project</u> Moderator: A.Bouldjedri, Batna Univ Update, Perspectives ,Potential: Nassim SEGHOUBANI, CRAAG, Algiers Followed by an open discussion
12:00 - 12:20	The Role of Astronomy in Space Technology Development: The Case of Nigeria, Bonaventure OKERE , Basic Space Science Center, Nigeria
12:30 - 12:45	The HOU (Hands On Universe) Project, Roger FERLET , IAP, Paris
13:10 – 14:25	Poster Session III followed by Lunch
Parallel sessions A & B (Audio Visual Building – Chaabat Erassas campus) Afternoon Session IV – A Solar, Stellar & Interstellar Physics	
14: 25 – 14: 45	MHD Mode Conversion in a Stratified Atmosphere Toufik El Hak ABDELLATIF , CRAAG, Algiers
14: 50 – 15: 10	Plea for Iron Astrochemistry Toufik-Amayas MOSTEFAOUI , Béjaia Univ.
15: 15 – 15: 35	Simulation of f-mode Propagation Through Two Identical Magnetic Flux Tubes, Khalil DAIFALLAH , CRAAG, Algiers
15: 40 – 16: 00	Coffee break
16: 00 – 16: 20	Hydrogen atom in strong magnetic and electric fields of compact stars Abdelhamid BOULDEDRI , Batna Univ.
16: 20 – 16: 40	Earth's bow shock from the supersonic solar wind Suleiman BARAKA , IAP & Al-Aqsa Univ., Gaza

Afternoon Session IV – B - AstroPhysics - Cosmology - II	
14: 25 – 14: 45	<i>Co-evolution of Black Holes and Galaxies,</i> Isabelle GAVIGNAUD , <i>Astrophysikalisches Institut, Potsdam</i>
14: 50 – 15: 10	Measuring the Spin of Black Holes A.Fabian , <i>Cambridge Univ.</i>
15: 15 – 15: 35	Thermodynamics of (2+1)-dimensional wormhole Mohammed AKBAR , <i>Centre for Adv. Math. & Physics, Islamabad</i>
15: 40 – 16: 00	Coffee break
16: 00 – 16 :20	Cosmology within U(1)-extended MSSM Amine Ahriche , <i>Jijel Univ.</i>
16: 20 – 16: 40	X-ray binary stars and Ovarian Follicle Growth: Math Models in Astrophysics and Physiology, Gordon SARTY , <i>Saskatchewan Univ</i>
Touristic Visit to Constantine - Bridges over the Rhummel, and the Téléphérique... - Emir Abdel Kader University & Mosque	
17:00 – 20:00	
20:00 – 21:00	Dinner La Pinteraie, 4-Chemins, Route de Batna

Friday 18th June Full day Trip	
GUELMA & its Region - The Roman Amphitheater & Museum - The Hot Springs of Hammam Debagh - More ...	