

Fast and Furious Workshop – Programme

Wednesday, 22 May 2013

09:00	Registration	
Session I Chair: Norbert Schartel		<u>New results and Rotation-powered pulsars</u>
09:40	<i>Sandro Mereghetti</i> : Introduction	
09:50	<i>Honjun An</i> : NuSTAR results and future plan for magnetars and rotation-powered pulsars	
10:20	<i>George Pavlov</i> : X-ray observations of rotation-powered pulsars	
10:50	<i>Wim Hermsen</i> : XMM-Newton revealed synchronous X-ray and radio mode changing in a pulsar: A bi-stable emission behaviour requiring global magnetospheric changes	
11:05- 11:30	Coffee Break & Poster Viewing	
Session II Chair: Sergei B. Popov		<u>Rotation-powered pulsars: high-energy emission</u>
11:30	<i>David Smith</i> : Gamma-ray Pulsars with the Fermi Satellite	
12:00	<i>Christo Venter</i> : High-energy pulsar models: Developments and new questions	
12:30	<i>Pablo Saz Parkinson</i> : X-ray observations and the search for Fermi-LAT gamma-ray pulsars	
12:45	<i>Jerome Petri</i> : A unified polar cap/striped wind model for pulsed radio and gamma-ray emission in pulsars	
13:00	<i>Shota Kisaka</i> : Particle acceleration region of old pulsars	
13:15	<i>Svetlana Petrova</i> : Plasma-producing Gaps in the Global Structure of the Pulsar Force-free Magnetosphere	
13:30- 15:00	Lunch	
Session III Chair: Pablo Saz Parkinson		<u>Rotation-powered pulsars / New missions</u>
15:00	<i>Thomas Tavernier</i> : Spectral properties and HE behaviour of few bright and young Fermi PSRs	
15:15	<i>Lucien Kuiper</i> : The soft gamma-ray pulsar population and its link to the Fermi LAT pulsar population: A full high-energy picture	
15:30	<i>Chi-Yung Ng</i> : Deep X-ray Observations of the High-Magnetic-Field Radio Pulsar J1119-6127	
15:45	<i>Takaaki Tanaka</i> : Suzaku Observations of Gamma-Ray Binaries and Prospects for ASTRO-H	
16:15	<i>Werner Becker</i> : eROSITA Status and its Scientific Prospects for Neutron Stars and Supernova Remnants	
16:30- 17:00	Coffee Break & Poster Viewing	
Session IV Chair: Jan-Uwe Ness		<u>Binaries</u>
17:00	<i>Robin Corbet</i> : Multi-wavelength Observations of Known, and Searches for New, Gamma-ray Binaries	
17:30	<i>Mallory Roberts</i> : Intrabinary Shock Emission From Black Widows and Redbacks	
17:45	<i>Jorge Ernesto Horvath</i> : 'Black widow' binary systems	
18:00	<i>Maria Noemi Iacolina</i> : Long Term X-Ray Timing of the Double Pulsar PSR J0737-3039	
18:15	<i>Iwona Mochol</i> : The stability of strong waves and its implications for pulsar wind shocks	
18:30	<i>Andrey Chugunov</i> : Observationally consistent evolution scenario for neutron stars in LMXBs	
18:45	End of Session	

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Session V		<u>Magnetars</u>
Chair: Diego F. Torres		
09:00	<i>Nanda Rea</i> : Magnetars: explosive neutron stars with extreme magnetic fields	
09:30	<i>Ersin Gogus</i> : Magnetar Bursts at All Scales	
10:00	<i>Andrei Beloborodov</i> : Activity of strongly magnetized neutron stars	
10:30	<i>Caroline D'Angelo</i> : Constraining Magnetar Bursts Properties from Energy-Dependent Variability	
10:45	<i>Romain Hascoet</i> : Hard X-ray emission from magnetars: fit by a physical model and resulting constraints	
11:00-11:30	Coffee Break & Poster Viewing	
Session VI		<u>Magnetars and related objects</u>
Chair: Sandro Mereghetti		
11:30	<i>Guillermo-Andres Rodriguez-Castillo</i> : Westerlund1 Transient AXP: Long-term Phase-coherent X-ray Timing & Pulse-Phase Spectroscopy of CXOU J164710.2-4552	
11:45	<i>Lin Lin</i> : On the X-ray emission mechanisms of the persistent source and very low-fluence bursts of SGR J0501+4516	
12:00	<i>Michael Gabler</i> : Modulating magnetar emission by magneto-elastic oscillations	
12:15	<i>Riccardo Ciolfi</i> : Magnetic Field Instabilities in Neutron Stars	
12:30	<i>Jonatan Martín</i> : Supernova Remnants with Magnetars	
12:45	<i>Andrea Tiengo</i> : A phase-variable absorption feature in the X-ray spectrum of a magnetar	
13:00	<i>Frank Haberl</i> : The Magnificent Seven: Nearby, Thermally Emitting, Isolated Neutron Stars	
13:30-15:00	Lunch	
Session VII		<u>Magnetars and related objects</u>
Chair: Wim Hermsen		
15:00	<i>Eric Gotthelf</i> : Timing Solutions for all three Anti-Magnetars	
15:30	<i>José Pons</i> : Magneto-thermal evolution of strongly magnetized neutron stars	
16:00	<i>Sergey Popov</i> : Unifying neutron stars: advances, problems and initial parameters	
16:15	<i>Daniele Viganò</i> : The maximum period of pulsars as a probe of fundamental physics	
16:30-17:00	Coffee Break & Poster Viewing	
Session VIII		<u>Magntars and related objects / Pulsar wind nebulae</u>
Chair: Joseph Gelfand		
17:00	<i>Adriana Mancini Pires</i> : New XMM-Newton observation of the thermally emitting isolated neutron star in the Carina Nebula	
17:15	<i>Andrei Igoshev</i> : Magnetic fields decay in pulsars. Population synthesis and other statistical methods	
17:30	<i>Bettina Posselt</i> : Probing the cooling of the Central Compact Object in the Cas A supernova remnant	
17:45	<i>Ascension Camero Arranz</i> : RRAT J1819-1458 and its extended X-ray emission	
18:00	<i>Diego F. Torres</i> : TeV Pulsar wind nebulae observations & modeling: issues and lessons	
18:15	<i>Rino Bandiera</i> : Modeling statistical properties of the X-ray emission from aged Pulsar Wind Nebulae	
18:30	<i>Tea Temim</i> : Supernova Dust and Ejecta Illuminated by Pulsar Wind Nebulae	
18:45	End of Session	
20:30	Conference Dinner	

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Friday, 24 May 2013

Session IX Chair: Rino Bandiera		<u>Pulsar wind nebulae</u>
09:00	<i>Arache Djannati-Atai</i> : TeV emitting PWNe: abundant and diverse high energy engines of all ages	
09:30	<i>Oleg Kargaltsev</i> : X-ray observations of pulsar-wind nebulae: current status and future prospects	
10:00	<i>Niccolò Bucciantini</i> : Review of the Theory of PWNe	
10:30	<i>Peter Eger</i> : The power of X-ray observations in identifying TeV emitting pulsar wind nebulae: The case of HESS J1818-154	
10:45	<i>Gerd Pühlhofer</i> : X-ray follow-up observations of confirmed and potential TeV supernova remnants	
11:00- 11:30	Coffee Break & Poster Viewing	
Session X Chair: George Pavlov		<u>Pulsar wind nebulae / Supernova remnants</u>
11:30	<i>Marco Tavani</i> : The Flaring Crab Nebula: Surprises and Challenges	
12:00	<i>Maxim Lyutikov</i> : Gamma-ray emission of Crab pulsar and the nebula	
12:30	<i>Andrea De Luca</i> : A fast-moving radio-quiet pulsar with a very unusual X-ray trail	
12:45	<i>Zhongxiang Wang</i> : Discovery of An Infrared Bow Shock near A Pulsar	
13:00	<i>Joseph Gelfand</i> : The Progenitor and Pulsar Birth Properties of Composite SNR Kes 75	
13:15	<i>Daniel Castro</i> : Fermi-LAT observations and a broadband study of supernova remnant CTB 109	
13:30- 14:45	Lunch	
Session XI Chair: Werner Becker		<u>Supernova remnants / New missions</u>
14:45	<i>Michiel van der Klis</i> : Large Observatory for X-ray Timing (LOFT)	
15:15	<i>Fabio Acero</i> : The intriguing structure of the "peanut" nebula	
15:30	<i>Marco Miceli</i> : The shape of the cutoff in the synchrotron emission of SN 1006 observed with XMM-Newton	
15:45	<i>Brian Williams</i> : Fast Shock Waves and Particle Acceleration in the Remnant of SN 1006	
16:00	End of Meeting	