

2nd ASTROphysics of Neutron Stars Workshop

30 June - 4 July 2007 İstanbul

R: 50' talk + 10' discussion

Rs: 40'talk + 5' discussion

C: 25' talk + 5' discussion

Cs: 15' talk + 5' discussion

30 June 2008 Monday

09:00 – 09:30 Registration and Coffee

09:30 – 09:45 Welcome

09:45 – 10:45 (R) Inside neutron stars– M. A. Alpar

10:45 – 11:05 (Cs) Dynamics of superfluid neutron star cores– T. Sidery

11:05 – 11:20 Coffee Break

11:20 – 11:50 (C) Oscillations of superfluid neutron stars– B. Haskell

11:50 – 12:20 (C) A hydrodynamical trigger mechanism for pulsar glitches- K.
Glampedakis

12:20 – 14:30 Lunch Break

14:30 – 15:30 (R) kHz quasi-periodic oscillations– T. Belloni

15:30 – 16:00 (C) High-frequency QPOs as global disk modes– M. H. Erkut

16:00 – 16:15 Coffee Break

16:15 – 16:45 (C) Aperiodic variability of HMXBs– P. Reig

16:45 – 17:15 (C) RXTE observations of SMC X-1– A. Baykal

1 July 2007 Tuesday

09:30 – 09:45 Coffee

09:45 – 10:45 (R) X-ray emission properties of rotation powered NSs – W. Becker

10:45 – 11:15 (C) Formation and nature of magnetic fields in NSs- J. Braithwaite

11:15 – 11:30 Coffee Break

11:30 – 12:30 (R) Recent developments for accreting millisecond X-ray pulsars– R.
Wijnands

12:30 – 14:00 Lunch Break

14:00 – 14:45 (Rs) To Pulse or not to Pulse? A Weighty Question – F. Özel

14:45 – 15:15 (C) On the Distance, Mass and Radius of the Neutron Star in the X-ray
Binary 4U 1608-52- T. Güver

15:15 – 15:30 Coffee Break

15:30 – 16:00 (C) Deviations from the Flux-Recurrence Time Relationship in GS
1826-238: Evidence for a Truncated Accretion Disk- T. Thompson

16:00 – 16:30 (C) XMM-Newton observations of pulsars with drifting subpulses- J. Gil
16:30 – 16:50 (Cs) Cyclotron lines in accreting X-ray pulsars - Models and
Observations- G. Schönherr
17:00 – 20:00 *ASTRONS Business Meeting (ASTRONS partners only)*

2 July 2007 Wednesday

09:30 – 09:45 Coffee
09:45 – 10:45 (R) Gravity beyond Einstein– D. Psaltis
10:45 – 11:05 (Cs) Population synthesis of binary pulsars– S. Osłowski
11:05 – 11:20 Coffee Break
11:20 – 11:40 (Cs) Unresolved X-ray emission and hot ISM in the bulge of M31– A.
Bogdan
11:40 – 12:10 (Cs) Wind braking of pulsars and related objects– J. Horvath
12:10 – 12:30 (Cs) Modeling X-ray Emission from Radio Pulsars– G. Melikidze
12:30 – 14:00 Lunch
Afternoon: FREE, city excursions
20:00 – Workshop Dinner

3 July 2007 Thursday

09:30 – 09:45 Coffee
09:45 – 10:30 (Rs) Soft Gamma Repeaters and Anomalous X-ray Pulsars– E. Göğüş
10:30 – 10:50 (Cs) Multiband near-infrared observations of 4U 0142+61 and 1E
2259+586 with Subaru/IRCS– Y. Tanaka
10:50 – 11:10 (Cs) Search for NIR Pulsation of the AXP 4U 0142+61– M. Morii
11:10 – 11:30 Coffee Break
11:30 – 11:50 (Cs) Extragalactic magnetars– S. Popov
11:50 – 12:10 (Cs) Broad-band noise characteristics of AXPs and SGRs- Ş. Balman
12:10 – 12:30 (Cs) Magnetar Seismology- L. Samuelsson
12:30 – 14:00 Lunch Break
14:00 – 14:30 (C) A resonant cyclotron scattering model for the soft X-ray spectra of
magnetars– S. Zane
14:30 – 15:00 (C) On the transient and persistent AXPs– Ü. Ertan
15:00 – 15:30 (C) Evolution of viscous thin disks– Y. Ekşi
15:30 – 15:45 Coffee Break
15:45 – 16:30 (Rs) X-ray variability, viscous time scale and Lindblad resonances in
LMXBs– M. Gilfanov
16:30 – 16:50 (Cs) The population of radio-quiet thermally emitting isolated neutron
stars– A. Mancini Pires
16:50 – 17:10 (C) RXTE-PCA Observations of XMMU J054134.7-682550– A. Baykal

4 July 2007 Friday – Prof. Ümit Kızıloğlu Session –

09:30 – 10:00 Coffee

10:00 – 10:45 (Rs) GLAST Mission– J. Knodlseder

10:45 – 11:30 (Rs) Simbol X– C. Motch

11:30 – 12:15 (Rs) XEUS and the prospects for astronomical X-ray Polarimetry- N. Bannister

12:15 – 14:00 Lunch Break

14:00 – 14:45 (Rs) Fast Optical Photometry and Spectroscopy– T. Marsh

14:45 – 15:00 (Cs) The optical counterparts to IGR J06074+2205 & IGR J01583+6713– E. Beklen

15:00 – 15:15 (Cs) An Optical Spectroscopic Approach to Be/X-ray Transient Systems: V0332+53 (BQ Cam)- M. Özbey

15:15 – 15:30 Coffee Break

15:30 – 16:00 (C) High energy astrophysics instrumentation efforts in Turkey based on semiconductor detectors– E. Kalemci

16:00 – 16:30 (C) Detecting dark matter using neutron stars– H. Ögelman

16:30 – 17:00 Discussion: What lies ahead?

Posters:

S. Abbassi – kHz QPOs and resonant shear Alfvén waves in neutron star magnetospheres

B. Dönmez – Investigation of Optimum Filter Parameters for Pixellated TlBr Detectors Using Digital Signal Processing Techniques

I. Erdeve – INTEGRAL observations of CCOs

E. Kahya – A Decisive test to confirm or rule out the existence of dark matter using gravitational wave observations

I. Kuvvetli – TBD

S. Lander – Structures of rotating magnetised neutron stars

N. Lund – Improving Coded Mask Instruments

A. Mastrano – Superfluid Kelvin-Helmholtz Instability and Pulsar Glitches

İ. Nasıroğlu – Fast optical photometry with OPTIMA

J. Porebska – Some aspects of neutron stars interior

N. Sartore – Galactic relics: building a new population synthesis code for isolated neutron stars and black holes

S. Şahiner – RXTE observations of 4U 1907+09

H. Yoshiaki – Suzaku timing and spectral study of AXJ1745.6-2901