

Scientific Event Report

E **Research in Astrophysics from Space**

E1.2 **Exploring Neutron-star Structure by Timing and Spectroscopy**

Main Scientific Organizer *Alpar, Mehmet Ali*

Deputy Organizer *Guver, Tolga*
 Wijnands, Rudy

Date: Mon, Aug 01, 2016. Room: 3B61

E1.2-0001-16 09:30 - 10:00 (solicited)

Observations of glitches

Espinoza, Cristobal

E1.2-0002-16 (WITHDRAWN) 10:00 - 10:20

Probing neutron star interiors with long pulsar-timing campaigns

Kerr, Matthew

E1.2-0003-16 (WITHDRAWN) 10:20 - 10:40

The glitch detection programme at the UTMOST telescope

Jankowski, Fabian Team: UTMOST collaboration

E1.2-0004-16 (WITHDRAWN) 10:40 - 11:00

Pulsar Timing program with ORT and a glitch in PSR B0740-28

Joshi, Bhal Chandra; Manoharan, Periasamy K; Krishnakumar, M A; Maan, Yogesh; Naidu, Arun Kumar

Date: Mon, Aug 01, 2016. Room: 3B61

E1.2-0005-16 11:30 - 12:00 (solicited)

Modelling pulsar glitches

Haskell, Brynmor

E1.2-0006-16 (WITHDRAWN) 12:00 - 12:30 (solicited)

Probing the interior of neutron stars with giant pulsar glitches

Chamel, Nicolas

E1.2-0007-16 12:30 - 12:50

Evidence for Nonlinear Vortex Creep: Re-set Braking Indices after Glitches

Alpar, Mehmet Ali; Akbal, Onur

Date: Tue, Aug 02, 2016. Room: 3B61

E1.2-0008-16 09:30 - 09:50

Microscopic vortex velocity and implications for neutron star dynamics

Gügercinoğlu, Erbil; Alpar, Mehmet Ali

E1.2-0009-16 09:50 - 10:20 (solicited)

Nonequilibrium Dynamics and the Evolution of Superfluid Neutron Stars

Saals, Jame

E1.2-0010-16 10:20 - 10:50 (solicited)

Observational results from cooling neutron stars in X-ray binaries

Degenaar, Nathalie

Date: Tue, Aug 02, 2016. Room: 3B61

E1.2-0011-16 11:30 - 11:50

Estimating the Breaking Strain in the Neutron Star Crust

Akbal, Onur; Alpar, Mehmet Ali

E1.2-0012-16 (WITHDRAWN) 11:50 - 12:10

Cooling of the neutron star X-ray transient 1RXS J180408.9-342058 in quiescence

Parikh, Aastha; Wijnands, Rudy; Degenaar, Nathalie

E1.2-0013-16 (WITHDRAWN) 12:10 - 12:30

Crustal cooling from KS 1731-260 14 years in quiescence

Merritt, Rachael; Cackett, Edward; Brown, Edward; Degenaar, Nathalie; Homan, Jeroen; Wijnands, Rudy; Cumming, Andrew; Miller, Jon

E1.2-0014-16 (WITHDRAWN) 12:30 - 12:50

Neutron star crust cooling in KS 1731-260

Ootes, Laura; Page, Dany; Wijnands, Rudy

Date: Tue, Aug 02, 2016. Room: 3B61

E1.2-0015-16 (WITHDRAWN) 14:00 - 14:30 (solicited)

Neutron star Obs. and Their implications for the nuclear EOS

Lattimer, James

E1.2-0016-16 14:30 - 14:50

The mass, radius, distance and cooling of the neutron star in EXO 0748-676 in quiescence with XMM-Newton

Cheng, Zheng; Mendez, Mariano; Diaz Trigo, Maria; Costantini, Elisa

E1.2-0017-16 14:50 - 15:20 (solicited)

Theoretical Calculations of Equations of State

Prakash, Madappa

Date: Tue, Aug 02, 2016. Room: 3B61

E1.2-0018-16 17:00 - 17:30 (solicited)

Observational constraints on neutron star Masses and Radii

Heinke, Craig

E1.2-0019-16 (WITHDRAWN) 17:30 - 17:50

X-Ray Burst Oscillations: from Flame Spreading to the Cooling Wake

Mahmoodifar, Simin; Strohmayer, Tod

E1.2-0020-16 17:50 - 18:20 (solicited)

Testing nuclear physics from space with quiescent low-mass X-ray binaries

Guillot, Sebastien

Date: Wed, Aug 03, 2016. Room: 3B61

E1.2-0021-16 09:30 - 09:50

The remarkable 2011 outburst of the magnetar Swift J1822.3-1606

Chakraborty, Manoneeta; Gogus, Ersin

E1.2-0022-16 09:50 - 10:10

STEMS3D: An X-ray spectral model for magnetar persistent radiations

Gogus, Ersin; Weng, Shan-Shan

E1.2-0023-16 10:10 - 10:40 (solicited)

The NICER mission: Status and technical capabilities

Chakrabarty, Deepto; Gendreau, Keith; Arzoumanian, Zaven

E1.2-0024-16 (WITHDRAWN) 10:40 - 11:00

An accretion-heated neutron star crust in strongly magnetised neutron stars?

Wijnands, Rudy; Degenaar, Nathalie

Date: Wed, Aug 03, 2016. Room: 3B61

E1.2-0025-16 (WITHDRAWN) 11:30 - 11:50

The absence of a heated crust in the magnetized neutron star in the Be/X-ray transient GRO J1750-27.

Rouco Escorial, Alicia; Wijnands, Rudy

E1.2-0026-16 (WITHDRAWN) 11:50 - 12:20 (solicited)

Neutron Star Properties from Observations of Pulsed X-rays

Morsink, Sharon

E1.2-0027-16 12:20 - 12:40

Understanding the timing behavior of magnetars during outburst

Tong, Hao

E1.2-0028-16 12:40 - 13:00 (solicited)

Observations of Neutron Stars with NICER

Bogdanov, Slavko

Poster Program

Author in Attendance: Sunday, 15:30 - 17:00, Poster area: B1 Poster Area

STW = Sunday, Tuesday, Wednesday / TFS = Thursday, Friday, Saturday

STW-268 E1.2-0029-16

Constraints on the R-mode oscillations from surface temperatures of millisecond pulsars

Guver, Tolga; Schwenzer, Kai

STW-269 E1.2-0030-16

Single Pulse Studies of PSR B0329+54 with LOFAR and categorization to mode changes.

Filothodoros, Alexandros

STW-270 E1.2-0032-16

Particles generation and cooling of pulsar magnetosphere

Kryvdyk, Volodymyr

STW-271 E1.2-0033-16

Long-Term Spectral and Temporal Evolution of Anomalous X-Ray Pulsar XTE J1810-197

Vurgun, Eda; Chakraborty, Manoneeta; Gogus, Ersin; Guver, Tolga

Poster Program

Author in Attendance: Tuesday, 15:30 - 17:00, Poster area: B1 Poster Area

See page 3

Poster Program

Author in Attendance: Wednesday, 15:30 - 17:00, Poster area: B1 Poster Area

See page 3