

The physics of accretion on compact objects: a multi-messenger approach

EWASS, Turku, July 8-9, 2013

Session 1, Monday, July 8, 11:45 – 13:15 /

Broad-band spectroscopy: from radio to gamma-rays

Chair: Juri Poutanen

11:45-12:30 Malzac, Julien: Broad-band spectroscopy: from radio to gamma-rays

12:30-12:45 Koljonen, Karri: Interpreting the spectral evolution of GX 339-4 through the hardness-intensity diagram

12:45-13:00 Neustroev, Vitaly: Far-ultraviolet and optical spectroscopy of the black hole candidate SWIFT J1753.5-0127

13:00-13:15 Linares, Manuel: Luminosity-hardness correlation in accreting neutron stars

Session 2, Monday, July 8, 14:30 – 16:00 / Fast variability

Chair: Phil Uttley

14:30-15:15 Revnivtsev, Mikhail: X-ray variability of compact objects as a tool of accretion physics

15:15-15:30 Heil, Lucy: Power colours: comparing power spectra without fitting

15:30-15:45 Petri, Jerome: Constraining the mass and moment of inertia of neutron stars from quasi-periodic oscillations in X-ray binaries

15:45-16:00 Balman, Solen: On the X-ray variability and inner disk structure of dwarf novae

Session 3, Monday, July 8, 16:30 – 18:00 / Black holes on all scales

Chair: Michiel van der Klis

16:30-17:15 Uttley, Phil: Variability in accreting super-massive black holes: origins and consequences

17:15-17:45 Schartel, Norbert: XMM-Newton highlights of compact objects

17:45-18:00 González Hernández, Jonay I.: Probing angular momentum loss in black hole X-ray binaries: the cases of XTE J1118+480 and A0620-00

Session 4, Tuesday, July 9, 11:45 – 13:15 / Accretion and fundamental physics

Chair: Yuri Levin

11:45-12:30 Rafikov, Roman: New ideas on mechanisms of angular momentum transport and variability in boundary layers of accretion disks

12:30-12:45 Lutovinov, Alexander: High mass X-ray binaries in the Milky Way

12:45-13:15 Boller, Thomas: Astronomical tests of General Relativity with X-ray and NIR spectroscopy in Galactic binaries, the GC and in bright AGN

Session 5, Tuesday, July 9, 14:30 – 16:00 / Accretion discs

Chair: Andrzej Zdziarski

14:30-15:00 Poutanen, Juri: Hot accretion discs in black hole binaries

15:00-15:20 Kolehmainen, Mari: The disc inner radius in the low/hard state of black hole binaries

15:20-15:40 Koliopanos, Filippos: X-ray diagnostics of chemical composition of the accretion disk and donor star in ultra-compact X-ray binaries

15:40-16:00 Zaw, Ingyin: Testing alpha-disk accretion model in the inner-most parsec of AGN with water masers

Session 6, Tuesday, July 9, 16:30 – 18:00 / Jets and coronae of the black holes

Chair: Julien Malzac

16:30-17:15 Sikora, Marek: What makes the jet production efficiency in AGN so diverse?

17:15-17:45 Zdziarski, Andrzej: Contributions from jets and accretion to emission of accreting black-hole binaries

17:45-18:00 Del Santo, Melania: High-energy emission of Cygnus X-1: the magnetic field in the X-ray corona

Posters

Akyuz, Aysun: Detection of a quasi-periodic oscillation from a ULX in NGC 4736

Boirin, Laurence: Simulated spectra of accretion disk winds for Athena+

Boneva, Daniela: Flow dynamics modeling during the active state of accreting compact binary stars

Castro, Manuel: Observations of 1E 1740.7-2942: analysis of the soft emission

Gális, Rudolf: AG Draconis - rigorous period analysis of photometric observations obtained over 120 years

Gális, Rudolf: X-ray and Optical Activity of Intermediate Polars

Güngör, Can: Aquila X-1 in outburst

Hric, Ladislav: RS Oph – flickering activity and accretion disc formation

Sabatini, Sabina: Gamma-ray monitoring of Galactic Microquasar

Stepnik, Agnieszka: On the origin of non-thermal electrons in hot accretion flows