

Session Program

15-19 Sept 2025



«A Microquasar Odyssey: Unveiling the Complexities»

Accretion-ejection (observation, theory, simulations)

Cefalù (Palermo), Palazzo Municipale - Sala delle Capriate
Cefalù (Palermo)

Thursday 18 September

12:05

Accretion-ejection (observation, theory, simulations)

Session | **Location:** Cefalù (Palermo), Palazzo Municipale - Sala delle Capriate, Cefalù (Palermo) | **Convener:** Dave Russell

12:05-12:35

The accretion-ejection connection in X-ray binaries: an observational perspective

Speaker

Thomas David Russell

12:35-12:50

Out with a bang: Simulating the impact of thermonuclear explosions on accretion disks and jets

Speaker

Nathalie Degenaar

12:50-13:05

The accretion ejection interplay in GX 340+0: Insights from joint X-ray and radio campaign

Speaker

Dr Yash Dilip Bhargava

13:05

13:05

Accretion-ejection (observation, theory, simulations): Flash Talk

Session | **Location:** Cefalù (Palermo), Palazzo Municipale - Sala delle Capriate, Cefalù (Palermo) | **Convener:** Dave Russell

13:05-13:07

Doublet Type-I X-ray Bursts from EXO 0748-676 Observed with SVOM/ECLAIRS and MXT: Comparison with 2024 AstroSat and NuSTAR Observations

Speaker

Dr Divya Rawat

13:07-13:09

Bubbles of ionized gas around Ultraluminous X-ray sources

Speaker

Anastasia Kilina

13:09-13:11

XMM-Newton, NICER and NuSTAR observations of the ultraluminous source NGC 4190 ULX-1

Speaker

Dr Jorge Ariel Combi

13:11-13:13

When ULXs Blink: A Detailed Look at Short-Lived Super-Eddington Accretion in M51

Speaker

Dr Anastasiya Yilmaz

13:13-13:15

Microquasars to QSOs with CCI: big leap or continuous spectrum?

Speaker

Saeqa Vrtilek

13:15-13:17**Tracing Accretion State Transitions in AGN: Insights from Photoionisation Simulations and IR Nebular Diagnostics****Speaker**

Dr Juan Antonio Fernandez Ontiveros

13:17-13:19**Revisiting the LS I+61303 environments****Speaker**

Pedro Luis Luque Escamilla

13:19-13:21**Evidence for enhanced mass transfer in the disc preceding the transition to the soft state in MAXI J1820+070****Speaker**

Pengcheng Yang

13:21

16:00

Accretion-ejection (observation, theory, simulations)**Session** | **Location:** Cefalù (Palermo), Palazzo Municipale - Sala delle Capriate, Cefalù (Palermo) | **Convener:** Sara Elisa Motta**16:00-16:30****Simulations of black hole accretion and jets****Speaker**

Sasha Tchekhovskoy

16:30-16:45**Magnetized Accretion-Ejection Structures, or how to go from JEDs to MADs.****Speaker**

Prof. Jonathan FERREIRA

16:45-17:00**Events leading up to the ejection of the corona in a microquasar****Speaker**

Dave Russell

17:00-17:15**Probing the jet response to neutron star X-ray bursts through the millimetre wavelength window****Speaker**

Alex Tetarenko

17:15

17:45

Accretion-ejection (observation, theory, simulations)**Session** | **Location:** Cefalù (Palermo), Palazzo Municipale - Sala delle Capriate, Cefalù (Palermo) | **Convener:** Alexandra Tetarenko**17:45-18:00****Jets and Luminosity Extremes: Insights from Swift J1727.8-1613's 2023-2024 Outburst****Speaker**

Andrew Hughes

18:00-18:15

New techniques for studying the real-time evolution of relativistic jets

Speaker

Callan Wood

18:15-18:30

No need for speed: Placing upper limits on Lorentz factors of large-scale XRB jets informed by hydrodynamic simulations

Speaker

Katherine Savard

18:30-18:45

Mini-HAWKs, a pilot survey to unveil dormant black holes

Speaker

Jorge Casares

18:45