

Session Program

7-11 Jul 2025



National Astronomy Meeting (NAM) 2025

Ins and Outs of Accretion: The Consequences of Mass Transfer onto Compact Objects

Teaching and Learning Centre (TLC)
Durham University South Road Durham DH1 3LS

Friday 11 July

09:00

Ins and Outs of Accretion: The Consequences of Mass Transfer onto Compact Objects

Session | Location: TLC113

09:00–09:05 Prep time

09:05–09:20

The accretion-outflow connection in accreting binaries: 5 key physics challenges

09:20–09:30

State-of-the-Art Simulations of Line-Driven Accretion Disk Winds

09:30–09:40

Optical Outbursts in Intermediate Polars

09:40–09:50

Upper Limits on Radio Emissions from AM CVn-type Stars

Speaker

Anwesha Sahu

09:50–10:00

Cataclysmic variables that splutter

Speaker

Keith Inight

10:00–10:10

Search of sub-stellar companions of White Dwarfs with X-ray observations

Speaker

Sandino Estrada-Dorado

10:10–10:20

Accretion Disk Dynamics and Mode Switching in the Transitional Millisecond Pulsar J1023+0038

Speaker

Pengyue Sun

10:20–10:30

Poster Flash Presentations

10:30

14:15

Ins and Outs of Accretion: The Consequences of Mass Transfer onto Compact Objects

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14:15–14:20 Prep time

14:20–14:30

A New Pulsating Ultraluminous X-ray Source Candidate in Centaurus A

Speaker

Amy Knight

14:30-14:40

Distinguishing between Accretion Precession Models in NGC5907 ULX with Phase Coherence Analysis**Speaker**

Nabil Brice

14:40-14:50

The very high X-ray polarisation of accreting black hole IGRJ17091-3624 in the hard state

14:50-15:00

Are jets from stellar mass black holes as fast as those from supermassive black holes?**Speaker**

Clara Lilje

15:00-15:10

Spectral-Timing Analysis of Swift J1727.8-1613 Using Insign-HXMT Observations

15:10-15:20

The changing face of UV emission: Tracing MAXI J1820+070 across a state transition

15:20-15:30

The Quiet Majority: Photometric Signatures of Non-Accreting Compact Objects in Luminous Binaries

15:30-15:40

Phased accretion and a dynamically-truncated eccentric circumbinary disc cavity in a pre-main-sequence binary system

15:45