

Session Program

7-11 Jul 2025



National Astronomy Meeting (NAM) 2025

Illuminating the Faintest Galaxies: Dwarf Galaxies as Probes of Dark Matter, Feedback, and the First Stars

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

Thursday 10 July

09:00

Illuminating the Faintest Galaxies: Dwarf Galaxies as Probes of Dark Matter, Feedback, and the First Stars

Session | Location: TLC033

09:00–09:05 **Welcome remarks**

09:05–09:19 **Distribution-function models for binary-rich ultrafaint galaxies**

Speaker

Dr Amery Gratton

09:19–09:33

Determining the extent of baryon-induced dark matter core creation: a first direct look at gravitational potential fluctuations

Speaker

Claudia Muni

09:33–09:47 **Dark Subhaloes in dwarf spheroidal galaxies**

09:47–10:01

New insights on low-mass dark matter subhalo tidal tracks via numerical simulations

Speaker

Alejandra Aguirre-Santaella

10:01–10:15

The structural diversity of simulated and observed low-mass galaxy analogues

Speaker

Garreth Martin

10:15–10:30 **A Local Dwarf Galaxy Search and High-z Analogs**

10:30

16:15

Illuminating the Faintest Galaxies: Dwarf Galaxies as Probes of Dark Matter, Feedback, and the First Stars

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16:15–16:29 **LYRA: Intrinsic stellar distributions in the faintest dwarf galaxies**

Speaker

Joaquin Sureda

16:29–16:43 **Dwarf galaxies in the UNIONS survey**

Speaker

Nick Heesters

16:43–16:57

The morphological mix of dwarf galaxies in the nearby Universe using ultra-deep optical imaging in the COSMOS field

Speaker

Ilin Lazar

16:57-17:11

Dwarf Galaxy Growth Across the Cosmic Web

17:11-17:25

THE ORIGIN OF THE PLATEAU IN THE STELLAR MASS METALLICITY RELATIONSHIP

17:25-17:39

Distribution Functions of Low-Mass Star-Forming Galaxies**Speaker**

Sakircan Beyazit

17:39-17:45

Poster Flash Presentations

17:45

Friday 11 July

09:00

Illuminating the Faintest Galaxies: Dwarf Galaxies as Probes of Dark Matter, Feedback, and the First Stars

Session | **Location:** TLC033

09:00–09:14

The Illusion of Diversity(?): Exploring the Dynamical State of Gas Discs in Dwarf Galaxies with COLIBRE

Speaker

Diego Dado

09:14–09:28

The fate of Milky Way satellites: the role of halo assembly history and the dependence on subgrid physics

Speaker

Gandhali Joshi

09:28–09:42

Observational evidence of star cluster migration and merger in dwarf galaxies

Speaker

Oliver Müller

09:42–09:56

Globular Clusters as Probes of Galaxy Evolution: Insights from Ultra-Diffuse Galaxies

09:56–10:02

Poster Flash Presentations

10:02–10:30

Discussion

10:30