

Tuesday 3rd

19:00 -- 21:00 Evening Reception at the Observatory

Wednesday 4th

09:00 -- 09:30 Registration

Morning Session

09:30 -- 09:45 Michael Burton / Marc Sarzi: Welcome address

Chair: Stefano Bagnulo

09:45 -- 10:15 John Regan (DCU): The origin of the first Quasars

10:15 -- 10:35 Frederick Richardson (Cork): Observations of outflows from AGNs at 6-21cm wavelengths

10:35 -- 10:55 Maeve Doyle (UCD): Millisecond Magnetars as the Central Engines of Gamma-ray Bursts

10:55 -- 11:15 Boris Nedelchev (UH/AOP): Probing the importance of AGN feedback in the nearby Universe with SDSS.

11:15 -- 11:30 Coffee Break

Chair: Carolina Villarreal D'Angelo

11:30 -- 12:00 Michelle Bannister (QUB): Worlds near and far: mapping the state of the Solar System

12:00 -- 12:20 Galin Borisov (AOP): The diversity of the chemical composition of the Martian Trojan asteroids

12:20 -- 12:40 Apostolos Christou (AOP): The Martian Trojans, a dynamic population of asteroids at 1.5 au from the Sun

12:40 -- 13:00 Rok Nezcic (AOP): Polarimetric Observations of Comets Observed with STEREO Spacecraft

13:00 -- 14:00 Lunch (own arrangements)

Afternoon Session

Chair: Michelle Bannister

14:00 -- 14:20 Stevanus Nugroho (QUB): Probing the Atmosphere of Ultra Hot Jupiters using High-resolution Spectroscopy

14:20 -- 14:40 Gerhard Ulbricht (DIAS): Developing an MKID camera for the high-contrast imaging of exoplanets.

14:40 -- 15:00 Dúalta O'Fionnagain (TCD): The super-Earth 55 Cancri e as a primary target for star-planet magnetic interactions

15:00 -- 15:20 Michael Burton (AOP): A method for mapping the distribution of aliphatic carbon in interstellar dust

15:20 -- 15:40 Donna Rodgers-Lee (TCD): Galactic-scale hydrodynamic simulations of 26Al

15:40 -- 16:00 Coffee Break

Chair: John Regan

16:00 -- 16:30 Garret Cotter (Oxford): The Cherenkov Telescope Array

16:30 -- 16:50 Samuel McKeague (DCU): Simulating Athena X-IFU observations of an eclipsing high mass X-ray binary

16:50 -- 17:10 Sarah Walsh (UCD): Observing the WHIM using Gamma-Ray Burst afterglows with the Athena X-IFU

17:10 -- 17:30 Selma Bouanane (Cork): High resolution X-ray spectroscopy with X-IFU: a new method of constraining black hole mass?

17:30 -- Conference Picture

19:00 -- Public Lecture (Planetarium)

20:00 -- Premiere of "Unseen Universe" show (Planetarium)

Thursday 5th

Morning Session

Chair: Peter Gallagher

09:30 -- 10:00 Paul Callanan (Cork): ESO, VLT in the 2030s

10:00 -- 10:20 Colm Bracken (DIAS): A Compact, System-On-Chip Readout Board for Photon-Counting Kinetic Inductance Detectors

10:20 -- 10:40 Samuel Green (DIAS): Thermal Emission from bow shocks I: 2D hydrodynamical models of the Bubble Nebula

10:40 -- 11:00 Andrew Miller (NUI): A MUSE Look at the Jet Morphology and Kinematics in the Herbig Star HD163296

11:00 -- 11:30 Coffee Break, "Astronomical Research, The Public, and You" by Heather Alexander (AOP)

Chair: Garret Cotter

11:30 -- 12:00 Peter Gallagher (DIAS): LOFAR observations of shocks driven by a Solar coronal mass ejection

12:00 -- 12:20 Oisin Creaner (DIAS): I-LOFAR Data Analytics with Kx Systems

12:20 -- 12:40 Salam Dulaimi (Galway): Untangling the Light-curves of the M7 dwarf binary 2MASSJ13142039+1320011

12:40 -- 13:00 Conor Byrne (TCD/AOP): Radiative Levitation in Post-Common Envelope Binary Stars

13:00 -- 14:00 Lunch (own arrangements)

Afternoon Session

Chair: Paul Callanan

14:00 -- 14:20 Laura Murphy (TCD): A new grid of Geneva stellar evolution models for Population-III stars

14:20 -- 14:40 Andreas Sander (AOP): Next-generation stellar atmosphere models as mass-loss laboratories

14:40 -- 15:00 Jessica Erkal (UCD): Imaging Jets from Young Embedded Sources

15:00 -- 15:40 Michael Burton: Demonstration of Scientific Visualisation using a Planetarium Dome

15:40 -- 16:00 Coffee Break

Chair: Lauren Doyle

16:00 -- 16:40 Poster Short Talks (list below)

16:40 -- 17:00 Ruben Fedriani (DIAS): Mirror, mirror, on the outflow cavity wall

17:00 -- 17:20 Peter Coles (NUI): Einstein, Eddington and the Eclipse Expeditions of 1919

17:20 -- 17:40 Erin Higgins (AOP): Massive star evolution in the Mass-Luminosity Plane

17:40 -- 17:50 Peter Curran Awards for best students talk and poster/short-talk

18:00 -- exclusive [Cap Com Go](#) show

19:30 -- 21:00 Conference Dinner (Planetarium)

Friday 6th

Morning Session

Chair: Apostolos Christou

09:00 -- 09:20 Aine Flood (TCD): Astronomical Midlands: Engaging Rural Communities in Ireland with I-LOFAR

09:20 -- 09:40 Mark Bailey (AOP): Light Pollution and its Impact: Inspiring Astronomy and Sustainable Development at Davagh Forest

09:40 -- 10:00 Aaron Reid (Andor): Skills and crossover experience between industry and astronomy research

10:00 -- 10:20 Simon Jeffery (AOP): Helium Stars, Heavy Metals, High Velocities and Explosions

10:20 -- 10:45 Jorick Vink (AOP): Finding the Biggest Star in the Universe + [next year's IAU Symposium on Massive Stars in Cavan](#)

10:45 -- 11:00 Coffee Break, end of INAM2019 meeting

11:00 -- 13:00 ASGI meeting

14:20 -- Afternoon Guided Visit to the City of Armagh, including the Robinson Library (90 min, booking needed, max 20 people)

Poster Presentations

Eamonn Ansbro (Space Exploration Ltd): Opportunity of using New Robotic telescopes in Spain

Eoin Baldwin (DIAS): Analysing the FPGA processing capacity of the Xilinx ZCU111 RFSoc as a photon counting MKID readout system

Brendan Clarke (TCD/DIAS): Evidence for time-dependent magnetic reconnection from X-ray and radio pulsations

Kerem Osman Cubuk (AOP/QUB): CO Mapping the Milky Way using Mopra Telescope

Mario De Lucia (DIAS): Development of an MKIDs array for astronomical applications

Lauren Doyle (AOP): The Rotational Phase distribution of Stellar Flares on M dwarfs

Anton Feeney-Johansson (DIAS): Measuring the magnetic field in the jet of the low-mass young stellar object DG Tau A

Gabriel Finneran (DIAS): Recent Discoveries and Future Plans for Dunsink Observatory

Pablo Galan de Anta (AOP/QUB): On the Fragility of Nuclear Stellar Discs in Early-Type Galaxies

Simon Jeffery (AOP): The SALT survey of chemically peculiar subdwarfs

Robert Kavanagh (TCD): Tuning in to the radio environment of HD189733b

Jonathan Mackey (DIAS): The PION code for simulating nebulae around stars

Maria Moutzouri (DIAS): Non-thermal emission from the bow shock of BD+43

Pearse Murphy (TCD/DIAS): Interferometric Imaging of Solar Type III Bursts with LOFAR

Stefan Nixon (TCD): Superluminous supernovae powered by magnetars

Vincent Schmidt (DIAS): The impact of supernova remnant shocks on star formation: The search for X-ray counterparts to YSOs

Richard Smith (QUB): Searching for TNO binaries in the HST archive.

Carolina Villarreal D'Angelo (TCD): Star-planet interaction through spectral lines.