

# ASTRONOMICAL SOCIETY OF IRELAND

2020 Conference Schedule

## Irish National Astronomy Meeting 2020

### CONFERENCE SCHEDULE



2-3-4  
Sept 2020



[www.astronomers.ie/INAM-2020](http://www.astronomers.ie/INAM-2020)

# Welcome

## Virtual Conference Schedule

The Irish National Astronomy Meeting (INAM) 2020 will be held on September 3-4. It will be hosted by the Centre for Astrophysics & Relativity of Dublin City University. The aim of the meeting is to give researchers across the island of Ireland an opportunity to showcase their work and share ideas on the development of astronomy and astrophysics in Ireland.

## Wednesday Agenda



### Wednesday, 2nd September

#### 14.00-15.00 - Career Workshop

The careers workshop will include short talks from 5 panellists from academia and industry. We would like to showcase the broad array of career opportunities available to astrophysics early career researchers, and allow for discussion and a Q&A session to field their queries.

John Regan (Chair, Maynooth University), Suzanne Foley (Statistician, CSO), Ger Fitzpatrick (Director of Engineering, Wayflyer), Rebeca Garcia-Lopez (University College Dublin), Sinéad McGlynn (EO Manager, Techworks Marine)

#### 15.00-15.30 - Coffee Break

#### 15.30-16.30 - Academic Writing Panel

This workshop will include short talks on academic writing and publishing from eminent scientists with a view to giving insight into approaches to proposal writing, paper writing as well as Plan S. Peter Coles (Maynooth University), Antonella Natta (DIAS), Luke Drury (DIAS)

#### 16.30-17.00 - Coffee Break

#### 17:00 - 19:00 I-LOFAR Consortium Meeting

# Thursday Agenda

## Thursday, 3rd September

**09.45-10.00 - Welcome** - President Daire Keogh, DCU

**10.00-11.10 - Keynote Address**

Prof. Michel Mayor, "Exoplanets: Twenty five years of discoveries."

**11.10-11.30 - Coffee Break**

## Session 1: Exoplanets and Their Host Stars - (Chair: Aline Vidotto)

**11.30-11.45 - Garton**

"Machine Learning Applications to Planetary Magnetospheric Signatures"

**11.45-12.00 - Hazra**

"How stellar activity cycle can shape atmospheric escape in exoplanets"

**12.00-12.15 - Dulaimi**

"Optical Variability, Rotation Period and Inclination Angle of the M9.5 dwarf BRI 0021-0214"

**12.15-12.30 - Matthews**

"High-resolution spectroscopy of exoplanet atmospheres using Doppler tomography"

**12.30-12.45 - Carolan**

"The dichotomy of atmospheric escape in AU Mic b"

**12.45-13.45 - Lunch**

## Session 2: Supernovae - (Chair: Morgan Fraser)

**13.45-14.25 - Invited Talk**

Kate Maguire (TCD): "Exploding stars and catastrophic collisions"

**14.25-14.40 - Farrell**

"The Uncertain Masses of Progenitors of Core Collapse Supernovae"

**14.40-14.55 - Brose**

"Cosmic-ray acceleration and escape from post-adiabatic Supernova remnants"

**14.55-15.10 - Brennan**

"SN 2016jbu and SN2009ip-like objects: Unmasking the impostors"

**15.10-15.25 - Callis**

"SN2018zd - Rare signatures of interaction in a Type IIP SN"

**15.25-15.50 - Coffee Break**

## Session 3: Star Formation & Stellar Evolution - (Chair: Emma Whelan)

**15.50-16.30 Invited Talk**

Luca Matrà (NUIG): "Exocometary belts: probes of planet formation"

**16.30-16.45 Murphy A.**

"Detecting Hidden Companions Using Stellar Jets"

**16.45-17.00 McGinnis**

The magnetic obliquity of accreting T Tauri stars"

**17.00-17.15 Stock**

"Investigating episodic accretion in a very low-mass young stellar object"

**17.15-17.30 Feeney-Johansson**

"Detecting radio flares from weak-line T Tauri stars using LOFAR"

# Friday Agenda

## Session 4: Solar Physics & Solar System Dynamics - (Chair: Peter Gallagher)

### 09.30-10.10 - Invited talk

Caitriona Jackson (DIAS): "Space Weather at the Gas Giants"

### 10.10-10.25 - V N

"The fine-scale structure of chromospheric jets and their formation process"

### 10.25-10.40 - Carley

"Tracking a beam of electrons from the low solar corona to 1AU with the Parker Solar Probe and Low Frequency Array"

### 10.40-10.55 - Weigt

"Characteristics of Jupiter's X-ray auroral hot spot emissions using Chandra"

### 10.55-11.20 - Coffee Break

## Session 5: High Energy Physical Phenomena - (Chair: Paul Callanan)

### 11.20-12.00 - Invited Talk

Shane O'Sullivan (DCU): "AGN jets and cosmic magnetic fields"

### 12.00-12.15 - Zargaryan

"Gamma-ray spectrometry in the cutoff region as a key for the understanding of radiation processes in 3C 279"

### 12.15-12.30 - Mesquita

"The intensity of Galactic cosmic rays in the planet-hosting stellar system GJ 436"

### 12.30-12.45 - Green J.

"Studying Gamma-ray Emission from TON 599"

### 12.45-13.45 - Lunch

## Session 6: Massive Stars & Galactic Star Formation - (Chair: Jonathan Mackey)

### 13.45-14.25 - Invited Talk

Maritza Lara-Lopez (AOP): "An overview of star formation in galaxies"

### 14.25-14.40 - Green S.

"X-ray predictions of bow shocks around runaway O stars: The case of Zeta Ophiuchi"

### 14.40-14.55 - Allan

"The possible disappearance of a massive star in the low metallicity galaxy PHL 293B"

### 14.55-15.10 - Murphy L.

"The Effects of Rotation on the evolution and observable signatures of Population-III stars"

### 15.10-15.25 - Moutzouri

"Thermal and Non-thermal Emission of Bow Shocks in Radio"

### 15.25-15.50 - Coffee Break

## Session 7: Exploring the Milky Way - (Chair: Jorick Vink)

### 15.50-16.05 - Curran

"Tidal Evolution of Galactic Subhaloes"

### 16.05-16.20 - Kirwan

"Discovering Pulsar Candidates with LOFAR"

### 16.20-16.35 - Brennan, Giese

"First SETI searches from Birr (Joint talk - Aoife Brennan and Charles Giese)"

### 16.35-16.50 - Pattle

"JCMT BISTRO Survey observations of magnetic fields in the Ophiuchus molecular cloud"

### 16.50-17.15 - Narayana Sabhahit

"Investigating the Humphreys-Davidson limit for Galactic, LMC and SMC metallicities"

### 17.15-17.25 - Closing Remarks