



Annie Jump Cannon

Harvard Observatory
she/her/hers



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Science & Technology
Facilities Council

UK Research
and Innovation



With thanks to our sponsors:

Recreational Activities 18:30 - 21:00 (Various)	RAS Public Lecture (from 18:30) (Barter House Farm) 19:00 - 22:00 The Dukes Theatre, Lancaster City Centre	Conference Dinner 18:45 - 22:30 (UCA Main Space)	Morecambe Fringe Festival Event 19:30 - 22:00 (Alt-Space, Morecambe)
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EVENING ACTIVITIES (Additional information: nam2019.org)			
Monday	09:00 - 10:30 Parallel Session 1 GroundMag (Friday LT) CSA M5 (Frankland LT) SolarArmos 1 (Cavendish LT) Galblades 1 (Bowland Main LT)	10:30 - 11:00 Coffee (Posters Up) (Faraday Foyer, Physics A07, County Bar, UCA Poster Hall)	11:00 - 12:00 Plenary Lecture 1 Selma de Mink From Stellar Birth to Gravitational Wave Chirps: On the lives, deaths and afterlives of massive stars
	12:00 - 13:30 Lunch (County South LT, Marketplace 2)	12:00 - 13:30 Lunch (Private Dining Room, Marketplace 2)	13:30 - 15:00 Parallel Session 2 EqualityEngine 1 (Faraday LT) IonosphereThermos (Frankland LT) SolarArmos 2 (Cavendish LT) GalArcheology 2 (Bowland Main LT) CosmicWeb 1 (Elizabeth Livingstone LT) PostHST 1 (Marcus Merriman LT)
	15:00 - 15:30 Coffee (Faraday Foyer, Physics A07, County Bar, UCA)	15:00 - 15:30 Coffee (Cavendish Colloquium Room)	15:30 - 16:30 Plenary Lecture 2 Steve Milian (Faraday LT + Frankland LT) Sun et Luminie: the terrestrial magnetosphere revealed through orbital dynamics
	16:30 - 18:00 Parallel Session 3 EqualityEngine 2 (Faraday LT) SolarArmos 3 (Cavendish LT) Galblades 2 (Bowland Main LT) CosmicWeb 2 (Elizabeth Livingstone LT) PostHST 2 (Marcus Merriman LT)	18:00 - 18:30 Poster Session including afternoon tea (UCA Main Space)	18:30 - 19:00 Parallel Session 4 EqualityEngine 3 (Faraday LT) SolarArmos 4 (Cavendish LT) Galblades 3 (Bowland Main LT) CosmicWeb 3 (Elizabeth Livingstone LT) PostHST 3 (Marcus Merriman LT)
Tuesday	09:00 - 10:30 Parallel Session 4 SolarArmos 5 (Faraday LT) GalArcheology 3 (Frankland LT) EngagementSTP (Cavendish LT) BarryonGal 1 (Frankland LT) AstroTools (Bowland SR 10)	10:30 - 11:00 Coffee (Posters Down) (Faraday Foyer, Physics A07, County Bar)	11:00 - 12:00 Plenary Lecture 3 Boris Gänsicke Evolved planetary systems around white dwarfs
	12:00 - 13:30 Lunch (Faraday LT + Frankland LT)	12:00 - 13:30 Lunch (County South LT, Marketplace 2)	13:30 - 15:00 Parallel Session 5 MHDWavesSTP (Faraday LT) BarryonGal 2 (Frankland LT) GalArcheology 3 (Bowland Main LT) EduOutreachEngage (Elizabeth Livingstone LT) MOONS (Cavendish Colloquium Room)
	15:00 - 15:30 Coffee (Faraday LT + Frankland LT)	15:00 - 15:30 Coffee (Faraday Foyer, Physics A07, County Bar)	15:30 - 16:00 Parallel Session 6 GalArcheology 4 (Faraday LT) NumericalArmo 1 (Frankland LT) GalArcheology 2 (Cavendish LT) SolarArmos 2 (Bowland Main LT)
	16:00 - 17:30 Parallel Session 7 GalArcheology 5 (Faraday LT) NumericalArmo 2 (Frankland LT) ProAm (Cavendish LT) SolarArmos 3 (Bowland Main LT) MachineLearning 2 (Elizabeth Livingstone LT)	17:30 - 18:00 Parallel Session 8 GalArcheology 6 (Faraday LT) NumericalArmo 3 (Frankland LT) ProAm (Cavendish LT) SolarArmos 4 (Bowland Main LT) MachineLearning 3 (Elizabeth Livingstone LT)	18:00 - 18:30 Parallel Session 9 GalArcheology 7 (Faraday LT) NumericalArmo 4 (Frankland LT) ProAm (Cavendish LT) SolarArmos 5 (Bowland Main LT) MachineLearning 4 (Elizabeth Livingstone LT)
Wednesday	09:00 - 10:30 Parallel Session 6 MISTGeneral (Faraday LT) GalArcheology 8 (Faraday LT) NumericalArmo 2 (Frankland LT) GalArcheology 1 (Bowland Main LT)	10:30 - 11:00 Coffee (Posters Down) (Faraday Foyer, Physics A07, County Bar)	11:00 - 12:00 Plenary Lecture 4 Chris Linfort From Galaxy Zoo to LSST: Citizen Science and the Age of Big Data
	12:00 - 13:30 Lunch (Faraday LT + Frankland LT)	12:00 - 13:30 Lunch (County South LT, Marketplace 2)	13:30 - 15:00 Parallel Session 5 RAS Council Meeting (Bowland Hall) Publishing Lunch (Bowland North SR10) MIST / USFP Lunch (Cavendish LT) Careers Lunch (Private Dining Room) EuropeanET Explorant Lunch (Bowland North SR10)
	15:00 - 15:30 Coffee (Faraday Foyer, Physics A07, County Bar)	15:00 - 15:30 Coffee (Faraday Foyer, Physics A07, County Bar)	15:30 - 16:30 Parallel Session 9 GalArcheology 3 (Faraday LT) NumericalArmo 3 (Frankland LT) ProAm (Cavendish LT) SolarArmos 3 (Bowland Main LT) MachineLearning 2 (Elizabeth Livingstone LT)
	16:30 - 17:30 Parallel Session 7 GalArcheology 4 (Faraday LT) NumericalArmo 4 (Frankland LT) ProAm (Cavendish LT) SolarArmos 4 (Bowland Main LT) MachineLearning 3 (Elizabeth Livingstone LT)	17:30 - 18:00 Parallel Session 8 GalArcheology 5 (Faraday LT) NumericalArmo 5 (Frankland LT) ProAm (Cavendish LT) SolarArmos 5 (Bowland Main LT) MachineLearning 4 (Elizabeth Livingstone LT)	18:00 - 18:30 Parallel Session 9 GalArcheology 6 (Faraday LT) NumericalArmo 6 (Frankland LT) ProAm (Cavendish LT) SolarArmos 6 (Bowland Main LT) MachineLearning 5 (Elizabeth Livingstone LT)
Thursday	09:00 - 10:30 Parallel Session 6 MISTGeneral (Faraday LT) GalArcheology 8 (Faraday LT) NumericalArmo 2 (Frankland LT) GalArcheology 1 (Bowland Main LT)	10:30 - 11:00 Coffee (Posters Down) (Faraday Foyer, Physics A07, County Bar)	11:00 - 12:00 Plenary Lecture 4 Chris Linfort From Galaxy Zoo to LSST: Citizen Science and the Age of Big Data
	12:00 - 13:30 Lunch (Faraday LT + Frankland LT)	12:00 - 13:30 Lunch (County South LT, Marketplace 2)	13:30 - 15:00 Parallel Session 5 RAS Council Meeting (Bowland Hall) Publishing Lunch (Bowland North SR10) MIST / USFP Lunch (Cavendish LT) Careers Lunch (Private Dining Room) EuropeanET Explorant Lunch (Bowland North SR10)
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Outline Schedule



or visit ras.ac.uk/form/anonymous-reporting

call the hotline on 07802 877 698

tell a LOC member,

To report harassment or other CoC violations:

nam2019.org/lancaster/code-of-conduct

to adhere to the Code of Conduct:

and courtesy to other attendees and staff, and

All attendees are expected to show respect

+ Guest: Florence Cushman
Watermelon, Lamb, Fruit

+ Guest: Henrietta Swan Leavitt
Salmon, Lamb, Mousse

+ Guest: Williamina Fleming
Terrine, Gnocchi, Mousse

+ Guest: Williamina Fleming
Watermelon, Lamb, Fruit

Your menu choices:

RAS Awards Dinner

Diversity Lunch (Private Dining Room)

(Lunch provided at venue)

(County South LT, Marketplace 2)

11:00 - 12:00
Plenary Lecture 1
Selma de Mink
From Stellar Birth to Gravitational Wave Chirps:
On the lives, deaths and afterlives of massive stars

12:00 - 13:30
Lunch
(Faraday LT + Frankland LT)

13:30 - 15:00
Parallel Session 2
EqualityEngine 1 (Faraday LT)
IonosphereThermos (Frankland LT)
SolarArmos 2 (Cavendish LT)
GalArcheology 2 (Bowland Main LT)
CosmicWeb 1 (Elizabeth Livingstone LT)
PostHST 1 (Marcus Merriman LT)

15:00 - 15:30
Coffee
(Faraday Foyer, Physics A07, County Bar, UCA)

15:30 - 16:30
Plenary Lecture 2
Steve Milian
(Faraday LT + Frankland LT)
Sun et Luminie: the terrestrial magnetosphere revealed through orbital dynamics

16:30 - 18:00
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EqualityEngine 2 (Faraday LT)
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Galblades 2 (Bowland Main LT)
CosmicWeb 2 (Elizabeth Livingstone LT)
PostHST 2 (Marcus Merriman LT)

18:00 - 18:30
Poster Session
including afternoon tea
(UCA Main Space)

18:30 - 19:00
Parallel Session 4
EqualityEngine 3 (Faraday LT)
SolarArmos 4 (Cavendish LT)
Galblades 3 (Bowland Main LT)
CosmicWeb 3 (Elizabeth Livingstone LT)
PostHST 3 (Marcus Merriman LT)

19:00 - 22:00
Morecambe Fringe Festival Event
(Alt-Space, Morecambe)

21:00 - 22:00
Conference Dinner
(Bowland Main LT)

22:00 - 23:00
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