



# OKC@15: Celebrating 15 Years of the Oskar Klein Centre

## Tuesday, 17 October 2023

### Contributed Talks: Session 2 - FR4 (11:30 - 12:10)

-Conveners: Joel Pearson Johansson

time	[id] title	presenter
11:30	[32] Discovering fast transients and multi-messenger counterparts with the Zwicky Transient Facility	ANDREONI, Igor
11:50	[17] Hurdles on the road to the promised land: When reality meets expectations post GW170817.	SARIN, Nikhil

### Contributed Talks: Session 3 - FR4 (13:45 - 15:10)

-Conveners: Steve Schulze

time	[id] title	presenter
13:45	[5] Multi-messenger investigation on the neutron star equation-of-state-gravity degeneracy	BISWAS, Bhaskar
14:05	[14] Numerical analysis of non-thermal emission signatures of relativistic jets through RMHD simulations	ACHARYA, Sriyasriti
14:25	[11] Transient science the past 15 years	SOLLERMAN, Jesper
14:45	[8] Spectral Features from Pulsars and Dark Matter in the Cosmic-Ray Electron and Positron Fluxes	JOHN, Isabelle

### Contributed Talks: Session 4 - FR4 (15:40 - 17:00)

-Conveners: Justin Alsing

time	[id] title	presenter
15:40	[24] Dark Matter (H)eats Young Planets	SMIRNOV, Juri
16:00	[15] Effects of wave packet profiles on neutrino oscillations	GALE, Evan
16:20	[19] Detecting single gravitons with quantum sensing	TOBAR, Germain

# Wednesday, 18 October 2023

## Contributed Talks: Session 6 - FR4 (11:00 - 12:00)

-Conveners: Oindrila Ghosh

time	[id] title	presenter
11:00	[9] The Case for Renormalizable Quantum Gravity	BUONINFANTE, Luca
11:20	[7] Free-Streaming Neutrinos in the Early Universe	WALLISCH, Benjamin
11:40	[13] Constraining Cosmic Reionisation by Combining the kinetic Sunyaev-Zel'dovich Effect and the 21-cm Power Spectrum	GEORGIEV, Ivelin

## Contributed Talks: Contributed Talks 7 - FR4 (13:40 - 14:00)

-Conveners: Milena Crnogorčević

time	[id] title	presenter
13:40	[23] Quantum superpositions of spacetimes and black holes	ZYCH, Magdalena

## Contributed Talks: Session 7 - FR4 (14:30 - 15:10)

-Conveners: Milena Crnogorčević

time	[id] title	presenter
14:30	[25] The present and future of gravitationally lensed supernovae	ARENDSE, Nikki
14:50	[27] Strongly lensed supernovae; Discovery to cosmology in the LSST era	DHAWAN, Suhail

## Contributed Talks: Session 8 - FR4 (16:10 - 17:50)

-Conveners: Metin Ata

time	[id] title	presenter
16:10	[18] Cross-correlating galaxy catalogs and gravitational waves: a tomographic approach	CUOCO, Alessandro
16:30	[16] Primordial Black Holes and Gravitational Waves in Higgs- $R^2$ Inflation	CHEONG, Dhong Yeon
16:50	[1] Non-Gaussianity in rapid-turn multi-field inflation	IARYGINA, Oksana
17:10	[30] Turbulent magnetic field amplification in binary neutron star mergers	AGUILERA MIRET, Ricard
17:30	[42] Is the JWST Hinting Towards a Cosmological Model Beyond the Standard?	Dr GIRI, Sambit Kumar

# Thursday, 19 October 2023

## Contributed Talks: Session 9 - FR4 (14:10 - 15:10)

-Conveners: Joshua Eby

time	[id] title	presenter
14:10	[22] unimpeded: Universal model comparison and parameter estimation distributed over every dataset	HANDLEY, Will
14:30	[21] Self-interacting gravitational atoms in the strong gravity regime	WERNERSSON, Alexandra
14:50	[37] AMPEL: Scientific exploration in the era of high throughput astronomical observatories	NORDIN, Jakob

## Contributed Talks: Session 10 - FR4 (16:30 - 17:10)

-Conveners: Axel Widmark

time	[id] title	presenter
16:30	[41] Comprehensive constraints on the galaxy population enabled by machine-learning	ALSING, Justin
16:50	[33] Spacetime Emergence in the Real World	LAWSON, Matthew