**Session Program** 

5-9 Dec 2022

## The Dark Side of the Universe DSU2022 Ultralight dark matter

## Monday 5 December

14:00	Ultralight dark matter Session   Location: Old Main Building, 229   Convener: Benjamin Roberts
	14:00-14:20 Proposals for searches of scalar field dark matter using cavity resonators and capacitors
	Speaker Dr Igor Samsonov
	14:20-14:40 Dark matter detection via atomic interactions
	Speaker Ashlee Caddell
	14:40-15:00 New optical clocks based on Cu II, Yb III, Hf II, Hf IV, and W VI ions which may be used to search for dark matter and variation of the fine structure constant
	<b>Speaker</b> Saleh Allehabi
	15:00-15:20 Searching for new bosons in atomic spectra Speaker Pavel Fadeev
15:40	15:20-15:40 Searching for scalar field dark matter with hyperfine transitions in alkali atoms Speaker Andrew Mansour
16:10	Ultralight dark matter Session   Location: Old Main Building, 229   Convener: Igor Samsonov
	16:10-16:30 Searching for ultralight scalar dark matter with muonium and muonic atoms Speaker Yevgeny Stadnik
	16:30-16:50 Searches for axion dark matter at IBS-CAPP   Speaker Dr SungWoo Youn
	16:50-17:10 Axions in the post-inflationary scenario   Speaker Giovanni Pierobon
	17:10-17:30 Dynamical Friction from Ultralight Dark Matter Speaker You-Rong Frank Wang

## 17:30-17:50

Search for a Variation of the Fine Structure Constant around the Supermassive Black Hole in Our Galactic Centre

## Speaker

Benjamin Roberts

17:50