

Session Program

9-13 Dec 2024

**International Joint Workshop on the Standard
Model and Beyond 2024 & 3rd Gordon
Godfrey Workshop on Astroparticle Physics**

Light and ultralight physics

Thursday 12 December

14:00

Light and ultralight physics

Session | **Location:** Ainsworth Building, 202 | **Convener:** Giovanni Pierobon

14:00–14:30 **Axion clumps, streams and voids**

Speaker
Ciaran O'Hare

14:30–14:50 **The QCD-Axion-Nucleon Coupling at Finite Density**

Speaker
Michael Stadlbauer

14:50–15:10
Influence of the axion-nucleon interaction on the direct detection of dark matter

Speaker
Mr Yeray Garcia Del Castillo

15:10–15:30
Detecting Dark Matter Coherent Scattering via a Novel Torsion Balance Experiment

Speaker
Jie Sheng

15:30–15:50
New 511 keV Line Data Provide Strongest Sub-GeV Dark Matter Constraints

Speaker
Shyam Balaji

15:50