

Session Program

24-27 Mar 2025

UCLA Dark Matter 2025

***SESSION 16- Directional Direct Detection &
Direct Detection Recent Developments I***

UCLA Physics and Astronomy Building 1-425
475 Portola Plaza, Los Angeles, CA 90095 darkmatter@physics.ucla.edu

Wednesday 26 March

10:15

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Session |

Location: UCLA Physics and Astronomy Building 1-425, 475 Portola Plaza, Los Angeles, CA 90095
darkmatter@physics.ucla.edu

10:15-10:35

Directional Dark Matter Detection

Speaker

Sven Vahsen

10:35-10:50

Towards Quantum Sensing for Directional Dark Matter Detection Using Nitrogen Vacancy Centers in Diamond

Speaker

Jiashen Tang

10:50-11:05

A step into the neutrino fog: first indication of solar CEvNS with XENONnT

Speaker

Diego Ramírez García

11:05-11:20

Effect of Ultralight Dark Matter on $g-2$ of the Electron

Speaker

Prof. Jason Evans

11:20-11:35

Exploring the keV scale spectrum of CUORE to Search for Solar Axions

Speaker

Dr Alberto Ressa

11:35-11:50

The TRISTAN Detector Upgrade for the Search of Sterile Neutrino Dark Matter at KATRIN

Speaker

Andrew Gavin

11:50