## 24th Australian Institute of Physics Congress



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## A New Approach to Low-Mass Dark Matter Detection

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Ultra-low mass WIMP's are viable dark matter candidates. However, the resulting low-energy excitations are extraordinarily difficult to detect. I will outline a new experimental platform that translates the capabilities of optomechanics to enable detection of ~1ueV excitations in superfluid helium.

**Primary authors:** HARRIS, Glen (University of Queensland); Dr COX, Peter (The University of Melbourne); Prof. DOLAN, Matthew (University of Melbourne); Dr GORYACHEV, Maxim (University of Western Australia); Dr BAKER, Christopher (University of Queensland); BOWEN, Warwick (The University of Queensland)

Presenter: HARRIS, Glen (University of Queensland)

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