## 24th Australian Institute of Physics Congress



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## The Optical Limit of Phase Measurement in Space Based Interferometry

Monday 12 December 2022 11:15 (15 minutes)

This talk discusses a rigorous analysis of phasemeter behaviour in the ultra weak-light regime. We explore the fundamental limit in optical power at which heterodyne phase tracking measurements can be reliably performed, Focused on application in space-based interferometry.

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