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Type: **Invited talk**

Science with future Gravitational-wave Observatories: Astrophysics

Thursday 15 December 2022 11:10 (20 minutes)

What physics and astrophysics will we uncover with the next generation of gravitational-wave observatories? I will review the broad science case for future instruments, including tests of general relativity, relativistic and nuclear astrophysics, and extragalactic physics.

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Session Classification: Focus Session

Track Classification: Focused Sessions: Australia's future in gravitational wave physics and astrophysics