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## Cosmic Explorer and Einstein Telescope

*Thursday 15 December 2022 12:10 (20 minutes)*

What detector design, configuration and infrastructure are required to reach the gravitational wave horizon? I will discuss the proposed next generation gravitational wave detector, Cosmic Explorer. I will review the instrumental challenges and potential realisation to construct such an observatory.

The Einstein Telescope is European third generation gravitational wave detector. In this talk I will review the infrastructure and instrumentation design and the key challenges that it faces.

**Author:** Dr SLAGMOLEN, Bram (OzGrav, ANU)

**Presenter:** Dr SLAGMOLEN, Bram (OzGrav, ANU)

**Session Classification:** Focus Session

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