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Gravitational wave detectors: prospects for the future

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In the past three years, the first direct gravitational wave detections by LIGO and Virgo have provided remarkable scientific outcomes. More frequent detections by the ground-based network over the next decade have the potential to shed light on many areas of fundamental physics, astrophysics and cosmology. In this talk, I'll present plans for observations and detector upgrades over the next decade in the context of the global network as well as discuss longer term perspectives toward a new generation of GW detectors for the 2030s and beyond.

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