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Einstein Telescope, the future generation of ground based gravitational waves detector

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The Einstein Telescope (ET) is a planned European 3rd Generation Gravitational Wave (GW) Observatory, a new research infrastructure designed to observe the entire Universe using gravitational waves. ET will be a multi-interferometer observatory aiming to increase a factor of ten the present detector sensitivity and to explore a universe volume one thousand bigger. We will give an overview of the project, describe the main scientific goals and the technological challenges that must be overcome to reach the aspected sensitivity.

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