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A 3rd generation GW observatory: Einstein Telescope

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The detection of the GW emitted by the coalescence of a two black hole binary system, disclosed the new era of the GW astronomy. Advanced detectors will allow the detection of several GW sources, but to evolve toward the precision astronomy and astrophysics are needed new observatories with improved sensitivities and challenging performances. In this talk the path toward the realisation of the 3rd generation of GW observatories and the details of the Einstein Telescope project will be described.

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