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An introduction to the TianQin Project

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The TianQin Project plans to deploy around 2035 three satellites to form an equilateral triangle constellation, TianQin, in an orbit centered on the Earth with an altitude of about 105 kilometers, to detect gravitational waves in space. TianQin is expected to open the gravitational wave detection window in the frequency band of 10^{-4} Hz \sim 1 Hz, opening our eyes towards the nature of gravity, the origin of black holes and the history of the universe. The ultimate scientific detection capability of TianQin depends on the level of breakthroughs that can be achieved with various key technologies, such as high-precision space inertial reference and long baseline laser interferometry, etc., which are all being researched. In this talk, I will make a brief introduction to the TianQin project.

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