

Seismic Isolation of Advanced Virgo+

Wednesday, 14 June 2023 12:40 (30 minutes)

Since the first detection of gravitational waves in 2015, Advanced Virgo and Advanced LIGO interferometers have been able to detect almost 100 sources, starting the multi-messenger astronomy era. We will provide an overview of Advanced Virgo+ detector, concentrating on the seismic isolation system of its main optical components, the so-called superattenuator. We will discuss its mechanics and control strategies together with the perspectives and challenges for the future.

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Session Classification: General Relativity

Track Classification: Fundamental Physics tests: Gravity, Lorentz violation, general relativity, cosmology etc.