“Gravitational Wave Probes of Fundamental Physics” - a cross-cutting initiative

https://agenda.infn.it/e/GWFundPhys

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GW revolution opened new avenues for fundamental physics:

- Matter under extreme conditions

- Nuclear/atomic physics and their role in multi-messenger astronomy

- Fundamental problems in high-energy and gravitational physics

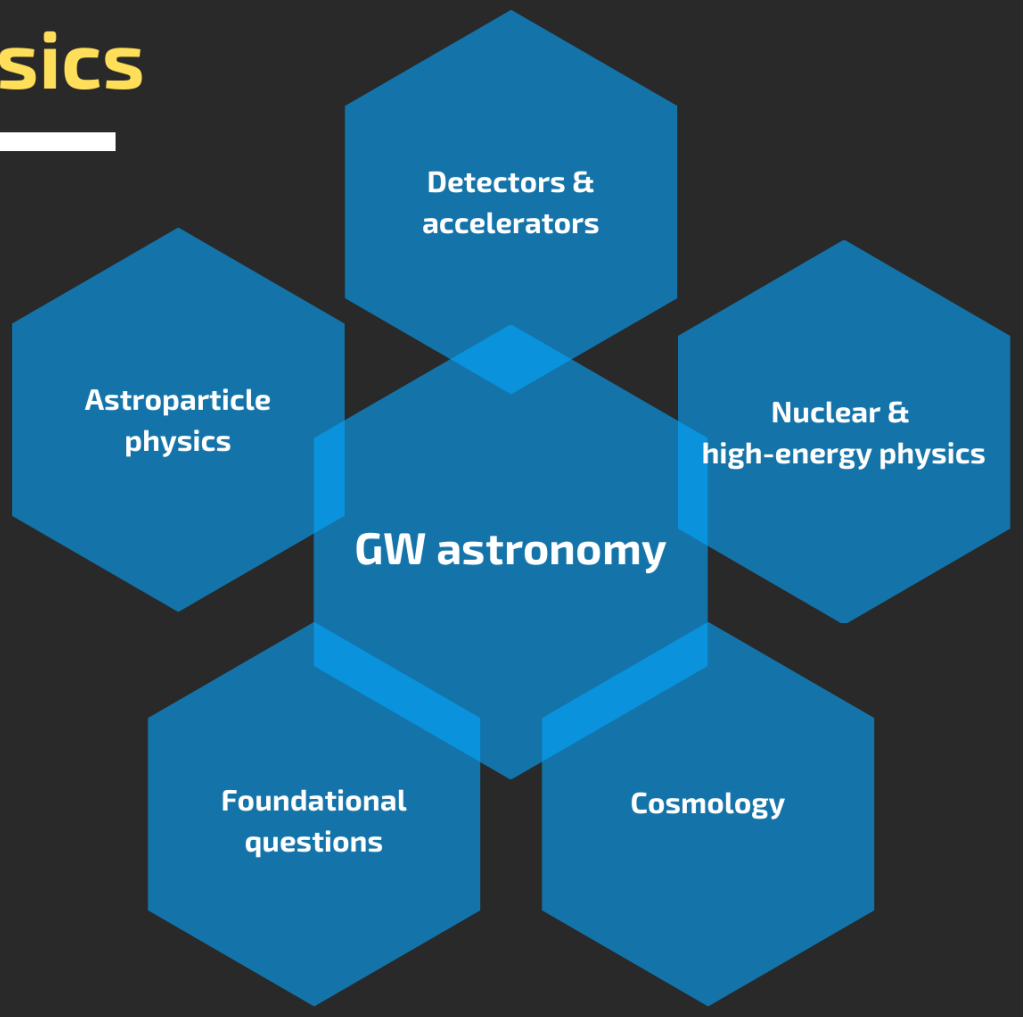
- GWs & Cosmology

Attacking these grand problems requires a multidisciplinary, cross-cutting effort at the interface of different communities, to exploit their synergies.

Gravitational Wave Probes of Fundamental Physics

A cross-cutting initiative for a common platform to:

- Foster synergies among astroparticle, atomic, nuclear, high-energy, and gravitational physics, cosmology, and GW and multi-messenger astronomy
- Strengthen the connection between the theoretical and experimental/observational communities
- Share expertise, tools, cutting edge technologies to attack multidisciplinary problems
- Train a new generation of researchers with diverse expertise and background
- Share and disseminate knowledge in fundamental physics



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