

## Multimessenger Astronomy Beyond the Standard Model and Quantum Sensing (Q-EYES 2025)



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### Space gravitational wave experiments

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The detection of gravitational waves on ground has become a routine nowadays, providing various insight into astrophysics of compact objects and fundamental physics. While the ground-based detectors probe compact objects in the stellar mass range, the future space gravitational wave missions are expected to probe those with heavier masses. However, such a bright future would not be achieved without instrumentation activities because nobody has ever achieved the space gravitational wave detection to date. This talk aims to give an update on the research field and highlight some of the instrumentation activities, inviting discussion for possible synergies with other studies.

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**Session Classification:** Plenary Session