## PPC 2023: XVI International Conference on Interactions between Particle Physics and Cosmology

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## Detection of gravitational waves by electromagnetic cavity: a review

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Gravitational wave (GW) detection using electromagnetic (EM) cavities has garnered significant attention in recent years. With ongoing experiments on axion detection using highly sensitive electromagnetic cavity, there is potential to apply these existing facilities to GW detection, opening up a new channel of GW observation. In this review, we comprehensively examine the principles of GW detection using EM cavities within the framework of general relativity. We expect that it not only provides analysis of existing EM cavity experiments and but also offers insights for the design of new ones.

## Secondary category for the parallel session (optional)

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