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Stochastic gravitational wave observation using circular polarized radiometry with global laser-interferometer network

Tuesday, 7 November 2023 17:00 (1 hour)

Circular polarized cosmological gravitational wave background may provide evidence of possible parity violation predicted by the e.g., Chern-Simon theory. However, Circular polarized astrophysical gravitational wave background may also exist with detectable amplitudes, if their source distribution is anisotropic. Therefore, we need to develop a method for all-sky search for possible circular polarized astrophysical background. In this poster, we display a new method using gravitational wave radiometry and simulation analysis was performed.

Presenter: KAKU, Izumi (Osaka Metropolitan University)

Session Classification: Poster Session