

# 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