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Phase camera experiment

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We will report a study of the phase camera, which is a wave-front sensor of laser. Especially, this sensor is utilized for observing phase-modulated laser in an interferometer of gravitational wave (GW) detectors. We are preparing this phase camera for advanced VIRGO and its installation is on going. The sideband signals in power recycling cavity are easily degraded by mirror aberrations in VIRGO. The phase camera will be used to see such mirror aberrations through the wave front of sidebands, and then, a cancellation pattern of the aberrations is constructed on compensation plates using CO2 lasers as a thermal compensation system.

Primary author: Dr AGATSUMA, Kazuhiro (National Institute for Subatomic Physics)

Presenter: Dr AGATSUMA, Kazuhiro (National Institute for Subatomic Physics)

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