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## Low-frequency ground deformation observed by the geophysics interferometer (GIF) in the KAGRA tunnel

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A laser strainmeter measures deformation of the ground by sensing distance between two separated points based on the optical interferometer with reference to wavelength of light. To monitor accurate ground deformations and broadband ground motions, a long-baseline laser strainmeter (geophysics interferometer, GIF) was constructed in the KAGRA tunnel and it has been in operation since then.

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