

Gravity-gradients measurements of Mt Aso using a laser-interferometric gravity-gradiometer

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A laser-interferometric gravity-gradiometer has been developed at the Institute for Cosmic Ray Research of Tokyo University for a couple of years and their laboratory test showed that the instrument had a resolution of about 1 microGal/m. As the first practical application of the newly developed instrument, we plan to measure gravity gradients at observation sites near Mt Aso. By carrying out the gravity-gradient measurements, we intend to study possible flows of volcanic fluids beneath the area of Mt Aso. We will report the current status and future prospects of the measurements.

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