

Development and Fundamental Test of Magnetic Moment Measuring System

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The measuring device consists chiefly of 2 parts, "Non-Magnetic Biaxial Rotation Table" and "Fluxgate Magnetometer". These devices has made it possible for us to measure magnetic fields and rotation angles at the same time. Therefore, we can finish measuring a magnetic moment within one minute. The method of magnetic moment calculation used in this experiment is a new algorithm developed for this system. If an instrument has a magnetic moment which is larger than a natural deviation of background magnetic field, we do not have to use the magnetic shield room. With this system, we can measure a magnetic moment of instruments in our laboratory.

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