

Abstract for the Amaldi conference(poster session);

Title: Status of KAGRA vibration isolation system

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Abstract: Mirrors for ground based gravitational wave detector are suspended to prevent seismic vibration transfers to the mirrors. Also in Japanese gravitational wave detector KAGRA, multistage suspension system including GAS Filters and Inverted Pendulums is used to attenuate the seismic noise. Since the initial KAGRA running is going to start soon, we assembled one prototype suspension (for Beam splitter) called type B and checked the vibration isolation performance in NAOJ(Tokyo, Mitaka). This poster session will present the concepts and status of the suspension system for KAGRA, focusing on the assembly and the result of the prototype test of the suspension system.