# **Status of KAGRA Vibration Isolation System**

Y.Fujii<sup>\*</sup>, T.Sekiguchi<sup>A</sup>, R.Takahashi , M.Barton , F.E.P.Arellano , H.Ishizuka , A.Shoda ,K.Okutomi , T.Miyamoto<sup>A</sup>, K.Hayama<sup>B</sup>, Y.Aso, T.Akutsu, H.Ishizaki, D.Tatsumi, N.Hirata, R.Flaminio \*yoshinori.fujii@nao.ac.jp NAOJ , ICRR<sup>A</sup>, OsakaCU<sup>B</sup>

## **1. Introduction**

We present the status of vibration isolation system (VIS) of the Large-scale Cryogenic Gravitational-wave Telescope (KAGRA). KAGRA will be operated at the cryogenic temperature of 20 K under the ground. A test run with the interferometer operated at room temperature is planned this year (iKAGRA). We assembled one prototype Seismic Attenuation System for the beam splitter of KAGRA, which we call type B. The vibration isolation performances of the prototype are bing tested in vacuum at NAOJ (Toyko, Mitaka). In this poster, we present the concepts and current performance of the KAGRA type B suspension system.

### 2. KAGRA Seismic Attenuation System (Type A/B/C)

The ground always vibrates

This **seismic motion** has to be

#### **\***KAGRA SAS

detector are suspended to attenuate

System (SAS);



