



Contribution ID: 86

Type: poster

Environment at the underground GW detector KAGRA

Tuesday, May 24, 2016 6:00 PM (0 minutes)

KAGRA is an interferometric gravitational-wave (GW) detector with 3-km arms in Japan. One of the main features of KAGRA is that it is constructed underground of the mountain. The underground has been considered to be suitable for the GW detectors since the environmental noise, such as seismic noise, is smaller. On the other hand, there are several problems characteristic in underground, such as spring water. In this poster, we will explain the current situation inside the KAGRA tunnel, using the environmental data took at the KAGRA site, such as seismic level, humidity, temperature, and so on.

Primary author: Dr SHODA, Ayaka (NAOJ)

Co-authors: ARAYA, Akito (Earthquake Research Institute, the University of Tokyo); HAYAMA, Kazuhiro (ICRR); KOKEYAMA, Keiko (ICRR); MIYAKAWA, Osamu (ICRR); Prof. MIYOKI, Shinji (Institute for Cosmic Ray Research, The University of Tokyo); UCHIYAMA, Takashi (ICRR); KATAOKA, Yu (Tokyo Institute of Technology); SASAKI, Yukitsugu (Nagaoka University of Technology); SHIKANO, Yutaka (Institute of Molecular Science, Japan)

Presenter: Dr SHODA, Ayaka (NAOJ)

Session Classification: Poster Session