



ID contributo: 19

Tipo: Poster

## Scattered light noise from Virgo viewports: results and possible mitigations

*martedì 7 giugno 2022 10:35 (5 minuti)*

In addition to the fundamental noises (quantum noise, thermal noise, and seismic noise) affecting the sensitivity of ground-based gravitational-wave interferometers, the technical noises often limit some frequency bands. A substantial part of the detector commissioning is devoted to the study and the mitigation of technical noises. Scattered light is among these noises. In this presentation, the studies of the scattered light from the main Virgo interferometer viewports, during the commissioning in preparation for the O4 run, and some preliminary results applicable for the O5 configuration will be shown. Possible mitigation suggestions will also be discussed.

**Autore principale:** Dr. TRINGALI, Maria Concetta (EGO - European Gravitational Observatory)

**Relatore:** Dr. TRINGALI, Maria Concetta (EGO - European Gravitational Observatory)

**Classifica Sessioni:** Poster session

**Classificazione della track:** Stray light