

# **GWADW2022 - Approaching the low-frequency design sensitivity of ground-based detectors**

**Monday 23 May 2022 - Saturday 28 May 2022**

**GatherTown and ZOOM**

## **Scientific Programme**

Science case related to low frequency GWs  
What we have learned and what we still need to learn to improve the LF sensitivity  
What instrument can react quickly for early warning  
Suspension thermal noise for LF  
Scatter light for LF  
Technical noise for LF  
Cryogenics for LF  
Missing issues for LF  
Other topics (in poster sessions)

## **Introduction**

### **Science cases related to GW at low frequencies**

### **R&D for early warning**

### **Instrument status: lessons and challenges for low frequencies**

### **Suspensions for low frequencies**

Conveners: Lucia Trozzo and Joris van Heijningen

### **Scatter light for low frequencies**

Conveners: Alena Ananyeva and Siddharth Soni

### **Technical noises for low frequencies**

Conveners: Daniel Brown and Jenne Driggers

### **Cryogenics for low frequencies**

Conveners: Ettore Majorana and Takafumi Ushiba

### **Missing issues for low frequencies**

Conveners: Matt Evans and Gabriele Vajente

## **Topics not related to low frequencies**

### **Summary session**