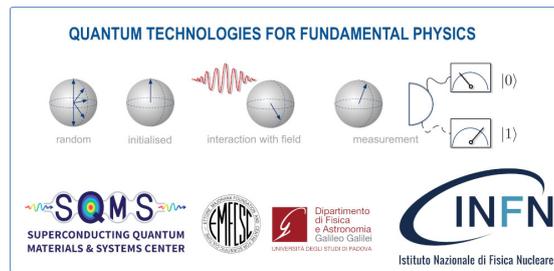


# Quantum Technologies for Fundamental Physics



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## The underground Round Robin

Monday, 4 September 2023 16:00 (20 minutes)

The Laboratori Nazionali del Gran Sasso (LNGS) is a deep-underground research facility located in Italy. The facility is surrounded by 1.4 kilometers of rock, which acts as a natural shield against cosmic rays. In this talk, I will present the “Round Robin” project, in which we aim to circulate the same qubit prototype in multiple SQMS testbeds to disentangle the sources of decoherence. I will discuss the preliminary results obtained in the characterization of the Round Robin in the LNGS cryogenic facility.

**Presenter:** COLANTONI, Ivan (CNR Nanotec)

**Session Classification:** Quantum Networks and Testbeds