

IDM 2022



14th International Conference on  
Identification of Dark Matter

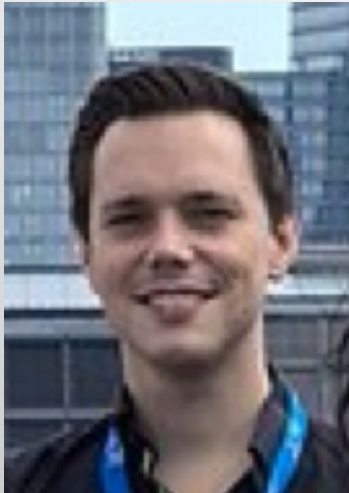
18-22 July 2022  
Vienna, Austria

# THE COSINUS EXPERIMENTAL FACILITY AT LNGS M. STAHLBERG FOR THE COSINUS COLLABORATION

MAX-PLANCK-INSTITUT  
FÜR PHYSIK



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- COSINUS: NEW DIRECT SEARCH EXPERIMENT AT LNGS WITH NAI AS CRYOGENIC CALORIMETERS
- THRESHOLDS  $O(1\text{ KEV})$ , ABSORBER MASSES  $\sim 100\text{ G}$
- NEW FACILITY AT LNGS
  - WATER TANK (CHERENKOV MUON VETO)
  - DRY DILUTION CRYOSTAT
  - HIGH-PURITY CU SHIELDING
  - VIBRATION MITIGATION SYSTEMS
- CONSTRUCTION MOSTLY COMPLETE
- FIRST RESULTS EXPECTED IN 2024