



Contribution ID: 78

Type: **oral**

Novel Hardware Setup for Astrophysics and Cosmology at INFN-LNF

Friday, 13 September 2024 11:45 (20 minutes)

Permanent Staff Personnel and Associated Personnel of INFN-LNF are setting up the local Astrophysics and Cosmology Team (ACT). The INFN-LNF ACT joined in 2023 the initial development phases of one of the forthcoming next-generation cosmology space-borne probes. The INFN-LNF ACT constituted an Integrated Test Facility (ITF), which is being instrumented in a dedicated space and will also make use of pre-existing INFN-LNF infrastructures. In the present contribution, the activities of commissioning and setup of the so-called 'pocket' cryostat are described, and, the possibility of improving the detection ability of the sensors of interest are briefly discussed.

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Session Classification: New Concepts