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## The world of cryogenics at CERN

*Tuesday 23 September 2008 09:30 (25 minutes)*

Today at CERN, cryogenics is largely used in the LHC project under commissioning for cooling the 27 km magnet ring which requires the largest 1.8 K helium refrigeration and distribution systems in the world as well as its two largest detectors (ATLAS and CMS), which incorporate a variety of cryogenic equipment. In addition, cryogenics is used for cooling specific experiments not related to the LHC complex. Finally, CERN wide, liquid helium is produced and distributed for specific users and cryogenic test facilities.

This presentation will introduce the CERN cryogenics world with emphasis on operation challenges and specificities.

**Proposed for workshop session (see call for abstracts): 1- Operation 2- Maintenance 3 - Safety 4 - Control**

1-Operation

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**Session Classification:** OPERATION 1

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