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## **C2Or1B-04: Cryopump specific designs and realizations for electrical propulsion test benches**

*Tuesday, July 23, 2019 11:45 AM (15 minutes)*

This paper will present the methodology developed by Absolut System for the design and optimization of high capacity cryopumps required for the testing and qualification of electrical propulsion thrusters.

Design, production and tests of a complete test chamber will be presented, including the LN2 feed thermal shrouds and the cold traps thermally anchored to a single stage AL230 type Gifford-Mahon (Cryomech) cold head.

On-going design of a test chamber will be introduced, using closed cycle LN2 from PTC1000 type Pulse Tube recondenser (AFCryo) for the thermal shrouds and remote Helium cooling loop based on a single stage AL325 type Gifford-Mahon (Cryomech) for the cold traps.

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