

Session Program

12-14 Oct 2011



CHATS on Applied Superconductivity 2011

Session 1 - Heat Transfer

CERN, Salle Andersson
40-S2-A01

Wednesday 12 October

08:15

Session 1 - Heat Transfer: Heat Transfer

Session | **Location:** CERN, Salle Andersson, 40-S2-A01

08:30–08:45 **Introduction**

Speaker

Frédéric Bordry

08:45–09:15 **Modeling of a horizontal circulation open loop in two-phase helium**

Speaker

Bertrand Baudouy

09:15–09:45

Heat Transfer through Cable Insulation of Nb-Ti Superconducting Magnets Operating in He II

Speaker

Mr Pier Paolo Granieri

09:45–10:15

Numerical study of the thermal behavior of a Nb₃Sn high field magnet in He II

Speaker

Dr Slawomir Pietrowicz

10:15–10:30 **Coffee Break**

10:30–11:00

Implementation of the superfluid helium phase transition using 3D FE modeling: simulations of hot spot burnout, recovery and phase front movement

Speaker

Mr Erwin Bielert

11:00–11:30

Thermo-hydraulic simulation of the ITER PF coil joints based on their coupling losses calculated with JackPot-AC

Speaker

Ezra van Lanen

11:30–12:00

Parametric analysis of pressure drop and heat transfer in the meander-flow heat exchanger of HTS current leads for fusion applications

Speaker

Mr Enrico Rizzo

12:00–12:30 **Parametric study for the cooling of HTS current leads**

Speaker

Dr Monika Lewandowska

12:30

14:00

Session 1 - Heat Transfer

Session | **Location:** CERN, Salle Andersson, 40-S2-A01

14:00-14:30

Modeling of heat transfer in an accelerator superconducting coil with a ceramic insulation in supercritical helium

Speaker

Slawomir Pietrowicz

14:30