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

Frédérick 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

14:30

Session 1 - Heat Transfer

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14:00-14:30

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

Speaker

Slawomir Pietrowicz