

CHATS on Computation of Thermohydraulic Transients in Superconductors - 2002

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Contribution ID: 2

Type: **not specified**

Introduction

Contribution ID: 3

Type: **not specified**

SESSION 1/ Superconducting Magnets for Particle Accelerators and Detectors

Presenter: Prof. ROSSI, Lucio (CERN)

Contribution ID: 4

Type: **not specified**

Analysis of Observations during Operation of the NHMFL 45-T Hybrid Magnet System

Presenter: Mr MILLER, John (NHMFL)

Contribution ID: 5

Type: **not specified**

Thermal-hydraulic analysis of the NHMFL 45-T Hybrid outsert coils

Monday, 16 September 2002 11:20 (40 minutes)

Presenter: Mr LUONGO, Cesar (NHMFL)

Session Classification: SESSION 1

Contribution ID: 6

Type: **not specified**

Alternative Conductor Concept for SIS-100

Monday, 16 September 2002 12:20 (20 minutes)

Presenter: Mr BOTTURA, Luca (CERN)

Session Classification: SESSION 1

Contribution ID: 7

Type: **not specified**

Thermal performance of TF coils in HT-7U

Monday, 16 September 2002 14:20 (40 minutes)

Presenter: XIAO, Bing-Jia (IPP)

Session Classification: SESSION 2

Contribution ID: 8

Type: **not specified**

Analysis and interpretation of the full set of Tcs tests in conductor 1A of the ITER Central Solenoid Model Coil

Monday, 16 September 2002 15:00 (40 minutes)

Presenter: Mr ZANINO, Roberto (Univ. Torino)

Session Classification: SESSION 2

Contribution ID: 9

Type: **not specified**

Effective Thermal Conductivity of the Conductor Insulation of the ITER Toroidal Field Model Coil at Operation Temperature

Monday, 16 September 2002 16:00 (40 minutes)

Presenter: Mr PASLER, Volker (Forschungszentrum Karlsruhe)

Session Classification: SESSION 2

Contribution ID: 10

Type: **not specified**

Heat transfer from plates to conductors : from Toroidal Field Model Coil tests analysis to ITER model

Monday, 16 September 2002 16:40 (40 minutes)

Presenter: Mrs NICOLLET, Sylvie (CAE)

Session Classification: SESSION 2

Contribution ID: 11

Type: **not specified**

Flower, a Model for the Analysis of Hydraulic Networks and Processes

Monday, 16 September 2002 17:20 (20 minutes)

Presenter: Mr BOTTURA, Luca (CERN)

Session Classification: SESSION 2

Contribution ID: 12

Type: **not specified**

Learning about hydraulic and stability through an ac loss test

Monday, 16 September 2002 17:40 (20 minutes)

Presenter: Mr BRUZZONE, Pierluigi (EPFL-CRPP)

Session Classification: SESSION 2

Contribution ID: 13

Type: **not specified**

International Accelerator Facility for Beams of Ions and Antiprotons at GSI

Monday, 16 September 2002 12:00 (20 minutes)

Presenter: Mr WILSON, Martin (GSI)

Session Classification: SESSION 1

Contribution ID: 14

Type: **not specified**

Analysis of Observations during Operation of the NHMFL 45-T Hybrid Magnet System

Presenter: Mr MILLER, John (NHMFL)

Contribution ID: 16

Type: **not specified**

A simple model for the prediction of quench point in Cable in Conduit Conductors

Tuesday, 17 September 2002 09:40 (40 minutes)

Presenter: Mr ANGHEL, Alexander (CRPP-EPFL)

Session Classification: SESSION 3

Contribution ID: 17

Type: **not specified**

Comparison between measurements and a full set of thermo hydraulic electro-magnetic code simulations for the ENEA stability experiment

Tuesday, 17 September 2002 10:20 (40 minutes)

Presenter: Mr CIOTTI, Marco (ENEA)

Session Classification: SESSION 3

Contribution ID: **18**

Type: **not specified**

Analysis of current redistribution in a Cable-in-Conduit

Tuesday, 17 September 2002 11:20 (40 minutes)

Presenter: Mr MARINUCCI, Claudio (EPFL-CRPP)

Session Classification: SESSION 3

Contribution ID: 19

Type: **not specified**

Local Change of Transport Current in Stabilized Magnet Systems at the Normal Zone Front

Tuesday, 17 September 2002 12:00 (40 minutes)

Presenter: Mr BOXMAN, Engelbertus (Univ. Twente)

Session Classification: SESSION 3

Contribution ID: 21

Type: **not specified**

Synthetic Analysis of Electrical Coupling Parameters in superconducting Cables

Tuesday, 17 September 2002 14:20 (40 minutes)

Presenter: Mr BOTTURA, Luca (CERN)

Session Classification: SESSION 4

Contribution ID: 22

Type: **not specified**

An analytical benchmark for the calculation of current distribution in superconducting cables

Tuesday, 17 September 2002 15:00 (40 minutes)

Presenter: Mr BRESCHI, Marco (Univ.Bologna)

Session Classification: SESSION 4

Contribution ID: 23

Type: **not specified**

Current redistribution and stability of superconducting triplex cable without electrical insulation carrying imbalanced current

Tuesday, 17 September 2002 16:00 (40 minutes)

Presenter: AMEMIYA, Naoyuki (Univ. Yokohama)

Session Classification: SESSION 4

Contribution ID: 24

Type: **not specified**

Transverse Magnetic Load Effects in Nb₃Sn Cable-in-Conduit Conductors

Tuesday, 17 September 2002 16:40 (40 minutes)

Presenter: Mr MITCHELL, Neil (ITER)

Session Classification: SESSION 4

Contribution ID: 25

Type: **not specified**

Investigation of the current sharing temperature and the n-value of the ITER-TFMC

Tuesday, 17 September 2002 17:20 (20 minutes)

Presenter: Mr HELLER, Reinhard (Forschungszentrum Karlsruhe)

Session Classification: SESSION 4

Contribution ID: 26

Type: **not specified**

A Quasi-2D Model for Helium Flow in Two-Channel CICC

Tuesday, 17 September 2002 17:40 (20 minutes)

Presenter: FENG, Jun (MIT)

Session Classification: SESSION 4

Contribution ID: 27

Type: **not specified**

Analysis of Observations during Operation of the NHMFL 45-T Hybrid Magnet System

Monday, 16 September 2002 10:20 (40 minutes)

Presenter: Mr MILLER, John (NHMFL)

Session Classification: SESSION 1

Contribution ID: 28

Type: **not specified**

Stability and Quench Propagation Studies on HTS Conductors

Wednesday, 18 September 2002 11:20 (40 minutes)

Presenter: Mr WEIJERS, Hubert (NHMFL)

Session Classification: SESSION 5

Contribution ID: 29

Type: **not specified**

A code for the analysis of thermal-hydraulic transients in warm-dielectric LN₂-cooled high-T_c superconducting power transmission cables

Wednesday, 18 September 2002 12:00 (40 minutes)

Presenter: Mrs SAVOLDI- RICHARD, Laura (Univ. Torino)

Session Classification: SESSION 5

Contribution ID: **30**

Type: **not specified**

WRAP-UP Meeting

Wednesday, 18 September 2002 13:40 (2 hours)

Presenter: Mr LUONGO, Cesar (NHMFL)

Contribution ID: **31**

Type: **not specified**

Superconducting Magnets for Particle Accelerators and Detectors

Monday, 16 September 2002 09:20 (1 hour)

Presenter: Prof. ROSSI, Lucio (CERN)

Session Classification: SESSION 1

Contribution ID: 32

Type: **not specified**

Test results and preliminary analysis of HT-7U short samples

Monday, 16 September 2002 13:40 (40 minutes)

Presenter: WENG, Peide (IPP)

Session Classification: SESSION 2

Contribution ID: 33

Type: **not specified**

Superconducting Coils for Fusion Devices: R&D Needs

Tuesday, 17 September 2002 08:40 (1 hour)

Presenter: Mr SALPIETRO, Ettore (EFDA-CSU)

Session Classification: SESSION 3

Contribution ID: 34

Type: **not specified**

Experimental study on strand current measurement in superconducting cables and on influence of non-uniform current distribution on its stability against local disturbance

Tuesday, 17 September 2002 13:40 (40 minutes)

Presenter: YONEKAWA, HiroFumi (SAMSUNG)

Session Classification: SESSION 4

Contribution ID: 35

Type: **not specified**

HTS Magnets – Stability, protection, cryogenic, and economic issues

Wednesday, 18 September 2002 10:00 (1 hour)

Presenter: IWASA, Yakikazu (MIT)

Session Classification: SESSION 5