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高エネルギー加速器研究機構 KEK
HIGH ENERGY ACCELERATOR RESEARCH ORGANIZATION

国際会議・ワークショップ

日時: 2007-02-15 09:15 - 18:00

場所: 高エネルギー加速器研究機構 4号館127号室

会議名: A workshop for the Saclay-KEK cooperation program on superconducting magnets and cryogenics for accelerator frontier

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Welcome

- Welcome to KEK, and to the
 - Workshop for the Saclay and KEK Cooperation Program for Superconducting Magnets and Accelerator Frontier,
- The workshop aims at
 - Exchange of Research Progress, and discussions for our possible further cooperation in the field of applied superconductivity and cryogenics in high energy particle accelerators and physics experiments.

Agenda

Feb. 15:

9:15~9:30	A. Yamamoto,	Opening remark
LHC Upgrade (chair Yamamoto)		
9:30~10:00	Tom Tayler,	LHC Upgrade review
10:00~10:30	Arnaud Devred,	CARE/NED and Saclay activities

10:30~10:40 Coffee Break

Nb3Al Development (chair Tsuchiya)

10:40~11:10	Mitsuda,	Nb3Al development
11:10~11:30	Kikuchi,	Nb3Al Development at NIMS I- Cu stabilization by ion-plating & electro-plating, and cabling and Race-track coil
11:30~11:40	Banno,	Nb3Al Development at NIMS II- Cu stabilization with double stacking,
11:40~12:10	Yamamoto,	discussion: - Global cooperation of NIMS and KEK with European and US laboratories comments from Tsuchiya, Wake, Takeuchi ..

12:10~13:30 Lunch

Agenda

Cryogenics (chair Kimura)

13:30~14:00	Bertrand Baudouy,	Heat transfer in He II
14:00~14:30	Takada,	Heat Transfer Characteristics on Several Film Boiling Modes in He II
14:30~15:00	Tomaru,	Cryogenics in interferometric gravitational wave detector
15:00~15:15	Kimura,	discussion

15:15~15:30 Coffee break

J-PARC Neutrino SC Magnet System (chair Ogitsu)

15:30~16:10	Sasaki,	Status on magnet
16:10~16:40	Okamura,	Status on cryogenics

Future project in Japan (chair Makida)

16:40~17:00	Aoki,	Introduction of Mu-e conversion experiment and SC magnet system at J-PARC
17:00~17:20:	Hirabayashi,	A proposal for future: Hydrogen energy and temperature applications

17:20 Yamamoto Closing

18:00 leave to dinner (organized by Kimura), 18:30 Dinner (Yakitori, YADORIYA, www.yadoriya.com)

Agenda

Feb.16,

12:00 Leave KEK, Tsukuba

Lunch on the way to Tokai (TBD)

14:30 Arrive J-PARC Tokai

14:30~15:00 MLF (Material and Life Science Facility)

15:00~15:40 50 GeV Main Ring and Neutrino Beam Line

15:40~16:00 3 GeV Rapid-Cycling Synchrotron

(Observatory) 16:00 Leave J-PARC 17:30 Tsukuba Express

Tsukuba Station 18:00 KEK Tsukuba

Saclay-KEK Cooperation

Close out

Status and Future

Status

- Exchange of Research activity
 - Work-shop, today, making good progress!
- Heat Transfer in He-II
 - On-going good cooperation and it will be further important to be extended
 - LHC luminosity upgrade and high irradiation,
- Magnetic safety and diagnostics
 - J-PARC SC magnet safety system
 - Contributing a major program,

Future

- LHC luminosity upgrade,
 - High field conductor and magnet
 - Heat-transfer in LHe-II
 - Insulation in high radiation
- Basic study for high field superconductor
- High Intensity Muon Program
- Hydrogen and HTS/MgB₂ application
- Exchange of Research Activities
 - Next workshop to be held at Saclay in next fiscal year?

Many Thanks for

- Participating the workshop, today.
 - With getting confident, very useful and producing workshop,
- Everyone preparing excellent presentation, and
- Workshop organizers,
 - T. Ogitsu, and N. Kimura, and
 - Our secretaries, S. Tanaka, and E. Nishihama,
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