

WG 2 Cavity material, fabrication, treatment and testing: new concepts and new benefits

Conveners: Claire Antoine (CEA), Camille Ginsburg (Fermilab), Tsuyoshi Tajima (KEK / LANL)

MONDAY, DECEMBER 5

Session 2:

1. Niobium Material

17:30 Chinese Nb production at NingXia

Hong Yun Zhao (OTIC)

18:00 Atmospheric surface treatments of Niobium

Enzo Palmieri (INFN)

18:15 Nb films prepared by HPIMS

Sergio Calatroni (CERN)

NB "Status of KEK Cavity Fabrication Facility" talk moved to Tuesday

TUESDAY, DECEMBER 6

Session 3:

2. Alternative materials and Nb films

09:00 Nb₃Sn (by Webex)

Matthias Liepe/Sam Posen (Cornell Univ.)

09:15 MgB₂/Nb cathodic arc deposition/ multilayers

Tsuyoshi Tajima (KEK)/ Claire Antoine (CEA)

09:35 Discussion

3. Materials effects (special focus on Q0)

09:45 Large-grain cavities

Waldemar Singer (DESY)

10:00 Hydrides and HF rinse studies (by Webex)

Alex Romanenko (Fermilab)

10:20 Tumbling and hydrogen

Charlie Cooper (Fermilab)

10:35 Status of KEK Cavity Fabrication Facility

Takayuki Saeki & Kenji Ueno (KEK)

Coffee break + Photo

4. Surface treatments (special focus on Q0)

11:20 Vertical EP at Saclay

Fabien Eozenou (CEA)

11:35 Vertical EP at Cornell

Georg Hoffstaetter (Cornell)

11:45 BEP at Jlab

Andy Wu (JLAB) (pres by T. Tagima)

11:55 Surface treatment studies at KEK

Hitoshi Hayano (KEK)

5. Tests, tools

12:15 Cavity inspection robot Felix Schlander (DESY)

6. Cavity design

12:30 SC RF gun with deposited lead photocathode Jacek Sekutowicz (DESY)