

mmWG news 1/2/24

Annual meeting, see: <https://indico.cern.ch/event/1325963>

Magnet session: two 1.5 hours sessions, prior to the presentations in the joint session

Proposal for session 1, "hot magnet topics"

- Resistive and HTS pulsed magnet design and options, details on optimization, resistive, eddy and AC loss: **three contributions** from UniBO, TUDa, UTWENTE, participation of FNAL and GSI
- Superconducting accelerator dipole options (LTS/HTS): **one contribution** of discussion with initial ideas from S. Fabbri and L. Bottura
- Collider magnets: **one contribution** on results on proposed design points for dipoles and quadrupoles and discussion of combined functions: INFN and TUT
- ... ?

Proposal for session 2, "plans and collaboration"

- Magnet systems development and production schedule, with estimates of M+P, and proposals for priority R&D topics (preparatory to the requested final report): **three contributions** from Task Leaders
- Towards an implementation of P5, opportunities for collaboration with US-MDP: **one contribution** from S. Prestemon, S. Gourlay
- Synergies with HFM: **one contribution** from E. Todesco, B. Auchmann
- ... ?

Additional talks requested

WED PM - Target solenoid (A. Portone & team)

WED PM - Final cooling solenoid (B. Bordini & team)

WED PM - Rectilinear cooling magnets (S. Fabbri & INFN)

THU AM - Resistive magnets circuits and magnets (F. Boattini, UniBO, TUDa)

THU AM - Collider magnets (INFN, TUT, CERN)

THU AM - RFMF test facility magnet design (INFN)

THU PM - Planning and staging (WP1)

FRI AM - Plenary on magnet roadmap

Proposed: FRI AM - Highlight talk on collider magnets (INFN)

In organization: a workshop on accelerators, including magnets (A. Chance)

Publications (impressive plan !)