

SLAC workshop 8 -10 July 2009

Working group 1: Microwave based accelerators

Wednesday July 8

Simulation, rf design and measurement

- **2:00-2:20** Dark Current simulations – Zenghai Li
- **2:20-2:40** PETS Simulations –Arno Candel
- **2:40-3:00** DDS for CLIC – Roger Jones
- **3:00-3:20** Design of the CLIC main linac accelerating structure with lower pulse surface heating temperature rise – Alexej Grudiev
- **3:20-3:40** T24_vg1.8_disk: measurements versus simulations – Alexej Grudiev
- **3:40-4:00** BREAK
- **4:00-4:45** Discussion on wake simulation / collider parameters– moderated by Alexej Grudiev

Development of rf power sources and components

- **4:45-5:10** Progress on XL-5 X-band klystron at SLAC - Daryl Sprehn
- **5:10-5:30** Experimental breakdown studies – Jan Kovermann
- **5:30-6:00** BREAK

Late evening session

- **6:00-6:20** Progress towards a new standard X-band high-power flange – Germana Riddone
- **6:20-6:40** Status of CLIC X-band high-power components – Germana Riddone
- **6:40-7:00** RF Power production at CTF3 – Steffen Doebert

Thursday July 9

- **10:00-10:20** Planned power recirculation for the T18 structures – Jake Haimson
- **10:20-10:40** Absorber material progress – Walter Wuensch
- **10:40-11:00** BREAK

High-power testing

- **11:00--11:20** Evaluation of physical structure of copper surface – Yasuo Higashi
- **11:20--11:40** Standing Wave X-band Single Cell Cavity Breakdown Studies –Faya Wang
- **11:40--12:00** T18 tests at NEXTEF – Toshi Higo
- **12:00—12:20** Dark current measurements at KEK – Mathias Gerbaux
- **12:20—12:40** 30 GHz testing: Speedbump and TM02 – Mathias Gerbaux
- **12:40—2:00** Lunch Break
- **2:00—3:30** Joint session with WG 6 (Cost and R&D)
- **3:30—4:00** Break

<ul style="list-style-type: none">• 4:00—4:20 Proposals for special experiments on accelerating structures – Alexej Grudiev• 4:20—4:40 Status of Single Cell Structure Test at SLAC – Valery Dolgashev• 4:40—4:55 A study on the way to evaluate breakdown rate– Shuji Matsumoto• 4:55—5:15 KEK test area plans – Shuji Matsumoto	<ul style="list-style-type: none">• 4:20—5:30 Visit for NLCTA (note that during that tour the session continues)
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Friday July 10

- **9:00—10:30** Joint Session with WG5 (Collimation and focusing)
- **10:30--11:00** BREAK
- **11:00—11:20** Advanced Compton scattering gamma-ray source R&D at LLNL Fred Hartemann
- **11:20—11:40** Potential Application Of X-Ray-Based Microfabrication Techniques For Accelerators Alireza Nassiri
- **11:40—12:00** Investigation of CERN-built T18 and actions for future structures – Germana Riddone
- **12:00—12:20** Status of CERN production – Germana
- **12:20—12:40** Status of KEK production – Toshi Higo
- **12:40—2:00** Lunch

- **2:00—2:20** Status of SLAC production – J. Wang
- **2:20 —2:40** LIC structure testing towards CDR, status and plans – Steffen Doebert
- **2:40—3:00** Update of the master schedule – Discussion led by Germana Riddone
- **3:00—3:40** Discussion on the production and testing
- **3:30—4:00** Break
- **4:00—5:30** Summary

Saturday July 11

- **9: 00 —10:00** Visit ASTA etc. (sign up with Sami/Juwen)
- **10:00—12:00** To Be Decided