5th ATF2 Project Meeting

Summary of Session on Hardware/Devices for Commissioning

Presentations

11:00->12:40 Hardware/devices for commissioning (Convener: Mark Woodley (*SLAC*) , Toshiyuki Okugi (*KEK*))
Description:

the final v3.7 optics and answers from the homework issues;
Minimal device-configuration for the commissioning, October 2007;
   - vacuum system, spaces for hardware, interfaces (to ATF control system) and responsibilities
   - remote participation

11:00	v3.8 optics and answers from homework issues (15') (🖼 Slides 📄 📧 , 🖼 more information)	Mark Woodley (*SLAC*)
11:15	commissiong hardwares and IP configuration (10') (🖼 Slides 📄 📧)	Toshiyuki Okugi (*KEK*)
11:25	Proposal of SLAC contribution to the control system software effort (15') (🖼 Slides 📄 📧)	Glen White (*SLAC*)
11:40	Discussion of the interactive optics control system for ATF2 (20') (🖼 Slides 📄 📧)	all

Woodley

- highlights

  - v3.8 optics, parts list, etc. available (http://www.slac.stanford.edu/~mdw/ATF2/v3.8)
  - if necessary, KEK will make copies of FFTB movers ... need drawings; Justin May will provide whatever he has (originally manufactured at Max Planck Institute?)
  - "prototype" mover (bad bearings) and three others will go back to SLAC

- homework

  - final selection of locations of IDX skew quadrupoles for vertical dispersion correction
  - many simulations; perhaps more fine tuning
  - Glen White and Okugi-san will study tuning with 3 missing movers and decide if fabricating new movers is necessary
  - Woodley will add Okugi-san's new IP layout to v3.8
  - Woodley will add FONT/FF/FB devices to v3.8 (based on Alexander Kalinin's presentation at ATF2 Weekly Meeting of July 27, 2007 … see Javier Resta Lopez talk at Instrumentation Session)

Okugi-san

- highlights

  - temporary QBPM control panel maybe not necessary, given "first pulse" calibration (see Doug McCormick talk at Instrumentation Session)
  - new IP layout allows for standard S-band BPM adapter for QD0 (OK for present designs of sweeper, Honda monitor, and Shintake monitor support)

- homework

  - Okugi-san will check with IPBPM and Shintake monitor groups to see how IPBPM will be assembled to BSM structure with bellows

Glen White

- highlights

  - Lucretia-Floodland "middle layer" has been developed for high-level applications
  - Flight Simulator (FS) access server runs on a "trusted" machine (in ATF Control Room)
  - access server must grant read and/or write access to individual PVs via EPICS Access Security Group (ASG) protocol … no access to unauthorized users
  - "test" FS must request access to PVs from "trusted" machine (must have authorized/registered MAC address, IP address, userid, …)
  - interfaces to other accelerator codes (PLACET, SAD, MERLIN, ...) can be made
  - will use common lattice description file in Accelerator Markup Language (AML) … each optics code must interface to AML (directly or via translator and file exchange)

- homework

  - continue development

Remote Participation

- Terunuma-san's responses to discussion points

  - problems with dual-monitor Webex not ATF problem ... Webex/linux problem
  - VNC not allowed because it requires direct remote access into ATF local network
  - we can get an international-enabled dedicated phone line into ATF Control Room for callback ... GDE must still pay the bill (KEK Webex license exists, but ALL calls are international and ~10 times more expensive than from US)
  - we can get a Polycom video camera (or similar) with remote pan/zoom capability (but shift leader must be able to switch off video)
  - ATF people are working on "data server" which lives outside of the ATF local network in the KEK "DMZ" ... refreshed copies of control system data will be available
  - ATF eLog exists ... will look into "print queue" access for adding graphics
  - schedule of beam studies available from ATF web ... he's planning on implementing a system for submitting beamtime requests

- homework

  - international-capable phone line, cool video equipment, ATF data server, eLog improvements, …