ColUSM Pending Actions
CoIUSM #136   05/02/2021

Indico link

Agenda
• S. Redaelli, “Review of recent action items”
• A. Waets, “Update on power deposition on TCSPM collimators from channeled beams”
• M. Sabaté-Gilarte, “Efficiency of TCL-6 for debris cleaning with different materials”

Open Actions
• Discuss the effect of the new TAXN aperture with the experiments, possibly at an LBS meeting, and send a request to the vacuum team for the pressure profile
  \textit{SR: Any news from Roderik?}
• Finalize settings and impact parameters of TCS used as absorbers
  \textit{SR: Done?}
• Run thermomechanical studies to conclude on the possibility to safely use coated collimators to absorb channeled beams and to assess what would happen in case of direct impact on the coating (FC)
  \textit{SR: ?}
ColUSM #139  26/03/2021

Indico link

Agenda

• D. Mirarchi, “Tolerances on pulse-to-pulse noise of the electron beam”
• S. Redaelli, “Update on specification for the HEL”
• A. Rossi, “Update on specification for the HEL modulator”

Open Actions

• Collect the remaining statistics to improve the sensitivity of the emittance growth simulations (DM)

  \textit{SR: Done for specs document, correct? Add ref to WP2 meeting?}

• Finalize the target emittance blow-up tolerance (SR, RTG)

  \textit{SR: Done for specs, although the point whether we can use the same values as for CCs is not finalized.}

• Evaluate the effect of the modulator voltage overshoot and finalize the current and voltage stability requirements (SS)

  \textit{SR: ?}
Indico link

Agenda

- N. Solieri, “CERN2 BLIP capsule inspection update”
- F. Carra, “Carbide-Carbon materials within the new IFAST project”

Open Actions

- Discuss a proposal for the optional activities to be performed on the irradiated samples (NS, CA, FC)

SR: Done and presented to the TCC. Budgetary details to be sorted out.
ColUSM #141  31/05/2021

Indico link

Agenda

• S. Redaelli, “Update on TCPC installation ECR”
• M. D’Andrea, “Update on final results of 2018 crystal collimation tests with Pb ion beams”
• Y. Gavrikov, “Report on measurements of new PNPI crystals for beam collimation”
• M. Di Castro, “Result of x-ray measurements on crystals for beam collimation”

Open Actions

• Reconvene after the x-ray measurements of the new batch of crystals are concluded (SR, YG, MDC)
  
  SR: next meeting. Analysis ongoing.

• Further investigate the differences observed between H8 and x-ray measurements (MDC)
  
  SR: New investigations on the effect of transients (temperature) in the X-ray setup. Small difference compared to the results reported by PNPI.
CoUSM #142  02/07/2021

Indico link

Agenda

• N. Solieri, “Results of adhesion tests of proton-irradiated Mo-coated MoGr samples”
• J. Molson, “IR3 simulations as input to energy deposition studies”
• A. Waets, “IR3 FLUKA simulation benchmarking with Run 2 data”

Open Actions

• Converge on a plan for additional activities on irradiates Mo-coated MoGr samples (SR, NS, MC)  
  SR: See comment above.
• Collect historical data and literature on post-irradiation tests done on CFC and MoGr samples in past campaigns, including adhesion tests performed during LS2 production and results of tests performed at BNL (FC, CA, NS)  
  SR: Carlotta worked on that. Do we need a short dedicated report?
• Incorporate in the slides a table with the collimator settings and impact parameter used in the SixTrack-FLUKA coupled simulation for IR3 (JM)  
  SR: Done?
• Continue the benchmark of FLUKA simulations and provide an estimation of the expected dose on the IR3 magnets in Run 3 and HL-LHC. Specifically, check previous studies on the possibility to calibrate the IR3 losses using the BLM ratio between IR7 and IR3 (AW, AL)  
  SR: Long term. Ongoing?