

1st RMBA meeting introductory remarks

L.Vitale - INFN & Univ. Trieste
RMBA meeting, 2020.05.29



UNIVERSITÀ DEGLI STUDI DI TRIESTE
Dipartimento di Fisica
Department of Physics



Istituto Nazionale di Fisica Nucleare
SEZIONE DI TRIESTE

RMBA working group

- Membership

- Representatives from Belle II and SuperKEKB subsystems
- Open to participation

- Charge

- Study of long-term future of radiation monitors and beam abort (RMBA) systems in the interaction region
- Initial focus on an upgrade path for the diamond electronics
- The wg will report to MDI, TB & other groups as appropriate

Preliminary plan

- Design and performance of existing Beam Loss Monitors (BLM) and beam interlock systems at other colliders
 - Mainly from LHC, this meeting
- Update of requirements for Belle II & SuperKEKB RMBA systems in the interaction region
 - Proposals to be circulated and discussed remotely
 - Aim at a first draft for the June 2020 B2GM
- Requirements and design principles for the upgrade of the diamond electronics
 - Follow-up after the June 2020 B2GM
 - More information on the wg confluence page

Agenda of this meeting

- **William Viganò / CERN** (20 min.)
The BLM system of the LHC injector complex
- **Eva Calvo Giraldo / CERN** (20 min.)
Real-time FPGA-based algorithms for the BLM systems at LHC
- **Questions & Answers** (20 min.)
Design and performance of BLM electronics at LHC
- **Ivan Popov / MPI Munich** (15 min.)
CLAWS for beam abort in SuperKEKB
- **Discussion** (15 min.)
Next steps for the RMBA wg
Update of requirements and specifications, 1st draft => B2GM

BACK-UP SLIDES