## RMBA w.g. organization discussion

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

• Next meeting?

in 2 weeks (mid June) / directly at B2GM (end June) ?

 Update of requirements for radiation monitoring & beam abort General, Belle II + SuperKEKB, interaction region
 Specific, electronics upgrade for the diamond system
 => Belle II draft note: sections, assignments, tools



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## Requirements, general

- 1. System availability, failure rate, protection agains failures
- 2. Monitoring requirements
- 2.1 Dynamic range
- 2.2 Readout frequency
- 3. Protection requirements
  - 3.1 PXD
  - 3.2 SVD
  - 3.3 other Belle II subsystems
  - 3.4 QCS magnets
- 4. Belle II SuperKEKB integration requirements (MDI)
  - 4.1 Hardware signals, synchronization
  - 4.2 EPICS software for readout and control
  - 4.3 Monitoring and archival tools

## Requirements, diamond electronics

- 1. Modularity and form factors
- 2. Diamond detectors
  - 2.1 Locations
  - 2.2 Cabling and grounding
- 3. Analog front-end and digitizers
  - 3.1 Dynamic range
  - 3.2 Time resolution
- 4. Digital section
  - 4.1 FPGA functions (running sums, aborts, monitor, readout)
  - 4.2 Buffer memories (depth; dual port access
  - 4.3 Ethernet interfaces
- **5.Synchronisation with SuperKEKB**
- 6.EPICS control and monitoring

## Tools, assignments, deadlines

- Tools: LaTeX + overleaf ?
- Section assignements (volunteers?)
  PXD protection requirements
  SVD protection requirements
  other Belle II subsystems
  MDI, SuperKEKB & QCS

deadlines

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June B2GM, 1<sup>st</sup> draft ?
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