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Beam Instrumentation

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The key beam instruments for post-mortem diagnostics in the LHC include:
• the beam position monitors (BPM),
• the beam loss monitors (BLM),
• the beam current transformers (BCT),
• the non-destructive beam profile monitors,
• the tune measurement,
• the abort gap monitors.
Turn by turn (or highest time resolution) data will be provided for all systems for the equivalent of 1000 turns before the post-mortem trigger. Coarser data will also be provided for the time interval of around 20 seconds before the trigger as well as 10-20 samples after the trigger.
Data volume depends on the PM data send to the PM server. For instance, 64 BPM systems will send 36 samples of 1000 points which will be approximately 300 Kbytes per system. It will require an external trigger (BST system) to freeze the post-mortem buffers.

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