BPMDOROS software plans

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Technical Stop 1

- ## Add Capture Mode
    - Allow capture of up to 100 000 turns:
        - orbits (turn-by-turn values decimated by 20 turns, low-pass filtered to ≈100 Hz)
        - oscillations (turn-by-turn, bandwidth 0.05 – 0.5 Frev)
    - May be triggered synchronously by MTG event: HX.BPMDORCAP-CT
    - Data saved to files
        - SDDS format for the OMC team
        - Binary for experts

- ## Change position correction for collimators
    - 5th order polynomial with cross-H/V coefficients

Future improvements

- Extending logging

- Sanity Checks from the LHC Sequencer
  - Before the beam is injected
  - Already working on the list of checks

- Online monitoring
  - When the beam is already in
  - Monitoring parameters
  - Collecting statistics

- Post-Mortem
  - Similar to Capture mechanism already in place
  - Useful information in PM to be defined