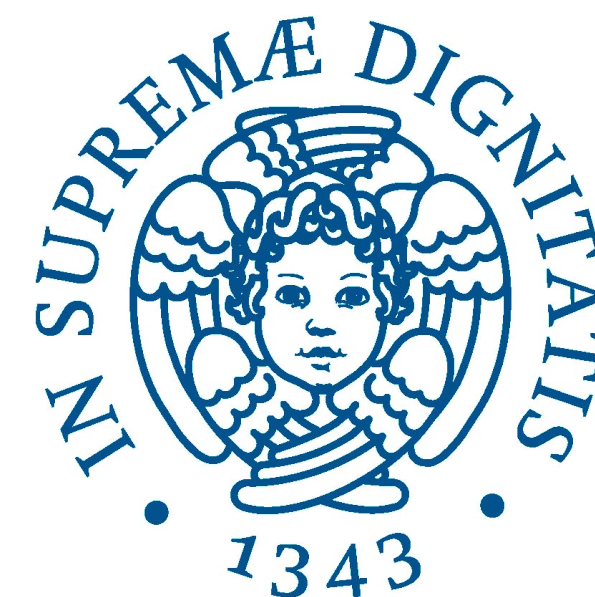# SVD DQM

Francesco Tenchini, TRG/DAQ Workshop, 1.12.2022

Status of SVD DQM

- **We currently do not have a dedicated SVD DQM person.**

  - Candidates are being discussed and we hope to find a solution soon.

- Significant changes to the overall package by Bjorn.

- ...but SVD DQM is essentially the same as 1 year ago.

  → Review existing scripts in light of the changes.

  → Make use of new features.

Code review

- Critical look at shifter and expert histograms - prune unnecessary plots.

- Increase granularity of certain histos e.g. more detailed monitoring of the sensors most exposed to radiation damage (both ExpressReco and MiraBelle)

- Add new plots where required:

  - EventT0 (now calculated using SVD information)

  - Separate histograms between 3- and 6-sample modes: BIISVD-451

  - Track time monitoring (shared with tracking DQM)

- Code maintenance/cleanup: Replace copy-pasted code with function calls.

Use new features

- Delta histogramming: identify areas where intra-run monitoring is useful (although many SVD monitoring plots are limited by statistics)

- Enable automated alert messages for key plots.

  - Review alert conditions. Which plots?

  - Question: How many alert levels are available?

- We have a plot for Run number now, but having Run/Exp number embedded in histograms is practical e.g. when comparing runs by eye.

  - Previously done by including the information in the title
    → bad habit of disappearing at the merging step.

  - Request: provide a way in the package to add Run no. as text box at coord. (X,Y)