

| tag                       | task  | priority | assignee          | consultant | responsible | due date | PR     | status + dependence |             |
|---------------------------|---|----------|-------------------|------------|-------------|----------|--------|---------------------|-------------|
| geometry:                 |   |          |                   |            |             |          |        |                     |             |
| g1                        | final Run3 geometry update (XML)  |          | Fabrizio, Gustavo |            | ?           |          | #35380 | <div></div>         |             |
| g2                        | fix: submit missing files   |          | Gustavo           |            | ?           |          | #35399 | <div></div>         | <div></div> |
| g8                        | upload of geometry to DB (pre-processed)<br>also GT update  |          | Wagner            |            | Fabrizio    |          |        | <div></div>         |             |
| g18                       | default reco sequence uses pre-processed geometry   |          | Wagner, Helena    | Jan        | Fabrizio    |          | #35772 | <div></div>         | <div></div> |
| g10                       | remove geometry specs from reco cff files<br>https://github.com/cms-sw/cmssw/issues/31360   |          | missing!          |            | ?           |          |        | <div></div>         |             |
| g11                       | organise files in Geometry/VeryForwardData/data   |          | a newcomer        | Clemencia  | Fabrizio    |          |        | <div></div>         |             |
| g19                       | disable building of misaligned geometry by default<br>misaligned geometry causes problems in PPS HLT<br>sequence (probably due to missing conditions in<br>DB)  |          | Jan               |            | ?           |          | #35423 | <div></div>         |             |
| g20                       | bug fix of Run2 pixel topology<br>recovers low-x pixel acceptance in Run2 direct simulation<br>WFs  |          | Fabrizio          | Jan        | ?           |          | #35671 | <div></div>         |             |
| reconstruction:           |   |          |                   |            |             |          |        |                     |             |
| re3                       | update of N-F association cuts: class, DB infrastructure  |          | Grzegorz          | Jan        |             |          | #35248 | <div></div>         |             |
| re4                       | update of N-F association cuts: DB upload   |          | Wagner            | Jan        |             |          |        | <div></div>         | <div></div> |
| re5                       | update of N-F association cuts: use DB by default   |          | Jan               |            |             |          | #35766 | <div></div>         | <div></div> |
| direct simulation:        |   |          |                   |            |             |          |        |                     |             |
| ds1                       | adjust Run3 alignment   |          | Jan               |            | ?           |          | #35424 |                     | <div></div> |
| ds4                       | backport to CMSSW 10_6<br>backport of features only available in 11_X/12_X<br>to the release used for Run2 analyses   |          | missing!          |            | POG         |          |        | <div></div>         |             |
| DQM and validation plots: |   |          |                   |            |             |          |        |                     |             |
| dqm5                      | timing RPs – support for SAMPIC readout<br>adds sampic reco to the standard PPS reco sequence, for PPS DQM sequence it removes TOTEM timing and adds diamond sampic, in the DQM module it adds flags to enable/disable plots for online/offline DQM |          | Chris             |            | DPG         |          | #35445 | <div></div>         |             |
| dqm10                     | timing RPs – update diamond DQM   |          | Chris             |            | DPG         |          | #35454 | <div></div>         |             |
| dqm11                     | common module – update RP ids   |          | Jan               |            | DPG         |          | #35484 | <div></div>         |             |
| dqm6                      | timing RPs – extract harvesting code to harvester modules<br>and add per-LS plots   |          | missing!          |            | DPG         |          |        | <div></div>         |             |
| dqm9                      | include PPS to T0 processing  |          | Fabrizio          |            | DPG         |          | link   | <div></div>         |             |
| dqm12                     | use Run3 era in online DQM, fix in master   |          | Jan               |            | ?           |          | #35550 | <div></div>         | <div></div> |
| dqm13                     | use Run3 era in online DQM, backport to 12_0  |          | Jan               |            | ?           |          | #35551 |                     | <div></div> |
| val1                      | more validation plots<br>details of N-F association efficiency, distances between tracks in each RP, t bias and resolution 2D histogram   |          | Jan               |            | ?           |          | #35740 | <div></div>         |             |
| PCLs:                     |   |          |                   |            |             |          |        |                     |             |
| pcl5                      | alignment – update of config classes  |          | Mateusz           | Jan        | DPG         |          | #35174 | <div></div>         |             |
| pcl6                      | alignment – upload of alignment config  |          | Mateusz,Wagner    | Jan        | DPG         |          |        | <div></div>         | <div></div> |
| pcl7                      | alignment – PCL-like matrix workflow  |          | Mateusz           | Jan        | DPG         |          | #35631 | <div></div>         | <div></div> |
| pcl8                      | alignment – inclusion in central PCL  |          | AlCa              |            | DPG         |          |        |                     | <div></div> |
| pcl9                      | fix of matrix tests – alignment and timing calibration  |          | Mateusz           | Jan        | DPG         |          | #35631 |                     | <div></div> |
| nanoAOD:                  |   |          |                   |            |             |          |        |                     |             |
| na2                       | simu tracks and protons in nanoAOD<br>idea: run “direct” simu during nanoAOD production<br>by default, this would be disabled, but available for private use  |          | missing!          |            | POG         |          |        | <div></div>         |             |
| framework:                |   |          |                   |            |             |          |        |                     |             |
| fmw1                      | UBSAN issue in TotemSampicFrame<br>details in <a href="#">here</a>  |          | Chris             |            | ?           |          | #35654 | <div></div>         |             |
| fmw2                      | UBSAN issue in CTPSPixelDigiToRaw<br>details in <a href="#">here</a>  |          | Fabrizio          |            | ?           |          | #35592 | <div></div>         |             |
| other:                    |   |          |                   |            |             |          |        |                     |             |
| ot1                       | standardised code for simu + PU event merging<br>code for standard PPS procedure of mixing (rec-hit level) simu signal with PU from unrelated real LHC events   |          | Andrea?           |            | POG         |          |        | <div></div>         |             |