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Offline software for Phase I (2018) heavy-ion reco

Frontier development recipe (i.e., instantly out of date)

CMSSW setup

```
cmsrel CMSSW_10_3_0_pre4
cd CMSSW_10_3_0_pre4/src
cmsenv
```

Reco cfgs

Latest customizations and mult-threading options may be found here:
[/afs.cern.ch/work/m/mnguyen/public/hiRecoTiming/](https://afs.cern.ch/work/m/mnguyen/public/hiRecoTiming/)

cmsDriver commands

See the RelVal workflows for HI reco and pp reco:

```
runTheMatrix.py -l 150 -n -e
runTheMatrix.py -l 158 -n -e
```

The workflow can be quickly validated with a similar command:

```
runTheMatrix.py -l 158 --useInput all -t 4
```

These workflows run peripheral Hydjet events, but of course you can change the generator to whatever you want, e.g., Hydjet_Quenched_MinBias_5020GeV_cfi

2018 MC (contact: Cole Lindsey)

- Central production
- Private production

HI pull requests

| PR# | Status | Requester | Description |
|-----------------------|--------|-----------|--|
| 18646 | | Austin | CA quad-seeding for HI reco |
| 18684 | | Matt | Cleanup of Vs jets and conditions to get HI reco running from driver |
| 18721 | | Matt | Keep nuclear gen info, e.g., npart |
| 19537 | | Marta | Add constituent-subtracted jets |
| 19089 | | Matt | HI phase I relVal |
| 19083 | | Austin | Full track primary vertex |
| 19475 | | Matt | Update of vertex smearing |
| 19486 | | Austin | Limit pixel pair to region around dead area |
| 19927 | | Matt | PF relinking |
| 19943 | | Kurt | DQM for CS jets |
| 20024 | | Matt | Bugfix for embedded workflows |
| 20303 | | Austin | Bugfix for detached step |
| 20482 | | Kurt | Fixing ptMin behavior for PU jets |
| 21667 | | Matt | Updated HI reco relval for 2018 detector (was 2017) |

| | | | |
|-------------------------|--|-------|----------------------------------|
| 21930 ↗ | | Kong | Displaced tracking for HI reco |
| 22226 ↗ | | Marta | remove all zero pT CS candidates |

Pull requests specifically related to HI processing with pp era

| PR# | Status | Merged into | Requester | Description |
|-------------------------|--------|-------------|-----------|--|
| 21861 ↗ | | 10_1_X | Matt | Era setup for pp reco on AA for 2018 |
| 23371 ↗ | | 10_2_X | Matt | Remove OOT photons |
| 23404 ↗ | | 10_2_X | Ran | Raise SC thresholds, and remove tracker-driven electrons |
| 23443 ↗ | | 10_2_X | Geonhee | Move tracker muon threshold to 800 MeV |
| 23510 ↗ | | 10_2_X | Austin | Several tracking and primary vertex speed-ups |
| 23520 ↗ | | 10_2_X | Ran | Reduce phi window for GED super-clusters |
| 24199 ↗ | | 10_3_X | Ran | Do not drop genParticles after GEN step |
| 24201 ↗ | | 10_3_X | Matt | Keep centrality info |
| 24224 ↗ | | 10_3_X | Matt | Drop taus, conversions, inclusive vertices & PF MET |
| 24257 ↗ | | 10_3_X | Austin | Add pixel tracks |
| 24339 ↗ | | 10_3_X | Cesar | Read Hybrid format tracker data |
| 24349 ↗ | | 10_3_X | Stepan | Switch to HI jet algos |
| 24365 ↗ | | 10_3_X | Kaya | Exclude flagged rechits from island clusters |
| 24413 ↗ | | 10_3_X | Ran | raise threshold on strip-seeded electrons |
| 24450 ↗ | | 10_3_X | Quan | Keep ZDC digis w/ new QE10 format |
| 24466 ↗ | | 10_3_X | Austin | Raise cluster limit threshold |
| 24537 ↗ | | 10_3_X | Austin | track MVA selection |

Contacts (Please update if out of date)

- Tracking: Austin Baty
- Jets: Stepan Obraztov & Yi Chen (ex: Chris McGinn, Kurt Jung)
- Egamma: Inna Kucher & Ran Bi (ex: Kaya Tatar)
- Muons: Geonhee Oh (ex: Emilien Chapon)
- Global Observables: Hyunchul Kim & Javier Martin Blanco
- Validation: Quan Wang
- MC: Cole Lindsey & Laurent Forthomme (ex: George Stephans)

Notes

- Pull request should now always be made to the master branch

Release validation

CMSSW_10_3_0_pre4

| POG | MC Status | Data Status | Comment |
|----------|-----------|-------------|---------|
| Tracking | | | |
| Electron | | | |
| Photon | | | |
| Muon | | | |
| Jet | | | |

| | | | |
|--------------------|---|---|--|
| Global Observables |  |  | |
|--------------------|---|---|--|

Meetings (Google docs linked from indico)

- May 11th: [indico](#)
- May 26th: [indico](#)
- June 9th: [indico](#)
- June 23rd: [indico](#)
- July 21st: [indico](#)
- August 4th: [indico](#)
- August 18th: [google doc](#)
- November 11th: [google doc](#)
- December 8th: [google doc](#)
- January 19th: [google doc](#)
- February 16th: [google doc](#)
- March 30th: [google doc](#)
- April 13th: [google doc](#)
- May 4th: [google doc](#)
- May 25th: [google doc](#)

Links

- mini-AOD info from the high pT group: [HiHighPtMiniAOD2018](#)

-- MatthewNguyen - 2017-05-11

This topic: CMSPublic > HiRecoTaskForce2018

Topic revision: r67 - 2018-11-21 - KayaTatar



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