PD-VD status report

RITM1998918, [shifter notes](#)

First validation sample ready: 10k cosmics events

2 workflows 1846, 1850 (500 jobs each, 10 events/jobs)

metacat and rucio checked:

metacat

```
========summary workflow id   1846 ==========
all files, summary workflow   1846
Files:       2000
Total size:   5198533256697 (5.199 TB)
reco  workflow  1846
Files:        500
Total size:    995657170392 (995.657 GB)
detsim   workflow   1846
Files:        500
Total size:    960403827451 (960.404 GB)
geant4, step 2  workflow  1846
Files:        500
Total size:   2123593891437 (2.124 TB)
geant4, step 1  workflow  1846
Files:        500
Total size:    1118878367417 (1.119 TB)
```

```
========summary workflow id   1850 ==============
all files, summary workflow   1850
Files:       2000
Total size:   5224367969643 (5.224 TB)
reco  workflow  1850
Files:        500
Total size:    999654353675 (999.654 GB)
detsim   workflow   1850
Files:        500
Total size:    963995415853 (963.995 GB)
geant4, step 2  workflow  1850
Files:        500
Total size:   2136037703641 (2.136 TB)
geant4, step 1  workflow  1850
Files:        500
Total size:    1124680496474 (1.125 TB)
-bash-4.2$
```

No duplicates, all files tagged as « confirmed »

rucio

Workflow 1846:

all files have a replica, expect the following from job 194035.0@justin-prod-sched01.dune.hep.ac.uk (US_Uconn-HPC):

prod_cosmics_protodunevd_20240417T132444Z_000255_gen_g4_stage1_g4_stage2_detsim_reco.root
prod_cosmics_protodunevd_20240417T132444Z_000255_gen_g4_stage1_g4_stage2_detsim.root
prod_cosmics_protodunevd_20240417T132444Z_000255_gen_g4_stage1_g4_stage2.root
prod_cosmics_protodunevd_20240417T132444Z_000255_gen_g4_stage1.root

Workflow 1851:

109*4 files have no replicas (list in preparation)

Jobs exit code:

Workflow 1848: jobs ran smootly

Workflow 1850: 19 jobs with exit code 12 (each processing step has its own exit code, to speed up the debugging

Exit code 12 → generation step, metadata extraction

All jobs with exit code=12 ran at CA_Victoria

can't open file '/cvmfs/fifeuser2.opensciencegrid.org/sw/dune/929a60164081b9b8f87a48cc3dd661e2d90e4aa5/pdjson2metadata':

(but not all jobs running at CA_Victoria had exit code=12)

What's next:

10k additional events to be produced (different generation fcl file, additional processing step , similar CPU and memory footprint)