

LBL Reco 2 Physics datasets

Physics datasets nu FD_HD (FHC)

- To create the official datasets metadata is used

```
"core.application.version": "v09_81_00d02",  
"core.application.name": "reco2",  
"core.data_stream": "out1",  
"core.data_tier": "full-reconstructed",  
"core.file_type": "mc",  
"core.run_type": "fardet-hd",  
"dune.campaign": "fd_mc_2023a_reco2",  
"dune.config_file": "standard_reco2_dune10kt_nu_1x2x6.fcl",  
"dune.requestid": "ritm1780305",  
"dune_mc.detector_type": "fardet-hd",  
"dune_mc.gen_fcl_filename": "prodgenie_nu_dune10kt_1x2x6.fcl",  
"dune.output_status": "confirmed",  
"core.group": "dune"
```

- After Steve clean up, there are 18477 files available from Steve's query
- Using refactored_CollectionCreator.py got 18439 files
- Differences are due to `dune.output_status=confirm` vs `dune.output_status=uploaded`
- Do we manually fix the metadata?

- There is one orphan file out there that passes query based on metadata

`fardet-`

`hd:nu_dune10kt_1x2x6_1412_481_20230826T153327Z_gen_g4_detsim_hitreco__20240229T162543Z_reco2.root`

- Fardet-vd nu fhc, it was necessary to add namespace to query, there files under usertests

```
{  
  "namespace": "fardet-vd",  
  "core.application.version": "v09_81_00d02",  
  "core.application.name": "reco2",  
  "core.data_stream": "out1",  
  "core.data_tier": "full-reconstructed",  
  "core.file_type": "mc",  
  "core.run_type": "fardet-vd",  
  "dune.campaign": "fd_mc_2023a_reco2",  
  "dune.config_file": "reco2_dunevd10kt_anu_1x8x6_3view_30deg_geov3.fcl",  
  "dune.requestid": "ritm1780305",  
  "dune_mc.detector_type": "fardet-vd",  
  "dune_mc.gen_fcl_filename": "prodgenie_anu_numu2nutau_nue2numu_dunevd10kt_1x8x6_3view_30deg.fcl",  
  "dune.output_status" : "confirmed"  
}
```

Summary

Fix meta:

`dune.output_status=uploaded` → `confirmed`

	Good files	To Fix meta	To do
Fardet-hd nu fho	18477	39	2307
Fardet-hd anu rhc	17837	9	2013
Fardet-hd nue fho	19890	0	936
Fardet-hd anue rhc	12520	10	7068
Fardet-hd nutau fhc	19439	17	1461
Fardet-hd anutau rhc	17306	16	2506
Fardet-vd nu fhe	21051	2	1508
Fardet-vd anu rhc	15541	7	5329
Fardet-vd nu "numu2nue" fhc	17140	116	6092
Fardet-vd anu "numu2nue" rhc	15542	71	5110
Fardet-vd nu "numu?nutau" fhc	15136	36	7303
Fardet-vd anu "numu2nutau"	12394	27	8568