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Attendees

GC, Promita, Francois, Francisco

Requests

Request #	Email Address	Name/tag of the request	Status	Type	Size	Output	WG	File Processing location	Campaign Manager	Path (/pnfs/sbn/data/sbn_fd/poms_production)
9	cerati@fnal.gov	New compression	Done	Data	-	raw	AI	OSG	Mateus	/data/compression
13	petrillo@slac.stanford.edu	ICARUSrun11816full	Running	Data	110k	stage1_caf	PMT	OSG	Promita	/data/Data_OpticalReconstructionWG_Run3_11816_*
14	petrillo@slac.stanford.edu	ICARUSrun11813full	Running	Data	110k	stage1_caf	PMT	OSG	Promita	/data/Data_OpticalReconstructionWG_Run3_11813_*
15	justin.mueller@colostate.edu	LArCV Production for Run 2	Done	Data	-	LArCV	ML	OSG	Mateus	-
29	usher@slac.stanford.edu	Reprocess Run 2 for Neutrino24	Running	Data	-	stage1_caf	Analysis	OSG	Promita	/data/Run2_DataReprocess
30	jzettle@fnal.gov	jzettle_systematics_cv_nuonly	Done	MC	200k	stage1_caf_LArCV	Osc. Analysis	OSG	Mateus	2024_ICARUS_MC_CV_Sys/2024_MC_CV_Sys
31	jzettle@fnal.gov	jzettle_systematics_tpsignalshape_variation_nuonly	Done	MC	200k	caf_LArCV	Osc. Analysis	OSG	Mateus	2024_ICARUS_MC_CV_Sys/2024_Sys_VAR1_untunedtpcsigshape

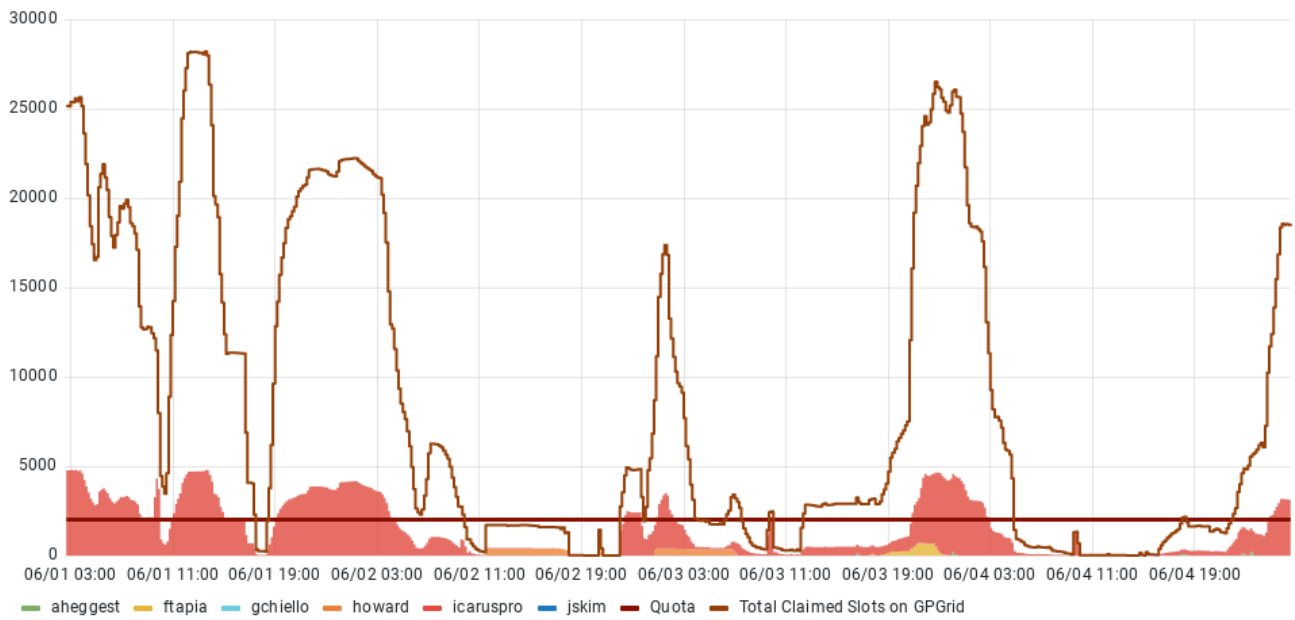
32	drielsma@slac.stanford.edu	MPVMPR	Done	MC	300k	LArCV	ML	OSG	Francois	-
33	daniel.carber@colostate.edu	NuMI LArCV data processing	Done	Data	1M	LArCV	ML/NuMI	OSG	Francois	-
34	betan009@fnal.gov	standard NuMI fcl	Pending	MC	3M	stage0, stage1, caf	NuMI			
36	justin.mueller@colostate.edu	Justin Mueller	Running	MC	336096	LArCV	ML	OSG	Francois	-
37	jzettle@fnal.gov	Detector Systematics - Middle Induction Minimal Transparency	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR1_tpcsignalshape
38	jzettle@fnal.gov	Detector Systematics - Middle Induction Maximal Transparency	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR3_tpcind2transparent
39	jzettle@fnal.gov	Detector Systematics - Front Induction Increased Gain Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR4_tpcind1increasegain
40	jzettle@fnal.gov	Detector Systematics - Front Induction Decreased Gain Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR5_tpcind1decreasegain*
41	jzettle@fnal.gov	Detector Systematics - PMT Quantum Efficiency Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR6_pmtdecreaseqde
42	jzettle@fnal.gov	Detector Systematics - Recombination Model Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR7_ellipsoidalrecomb*
43	jzettle@fnal.gov	Detector Systematics - TPC Coherent Noise Increase Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR8_tpcnoisep1sigma
44	jzettle@fnal.gov	Detector Systematics - TPC Coherent Noise Decrease Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR9_tpcnoisem1sigma
45	jzettle@fnal.gov	Detector Systematics - TPC Intrinsic Noise Increase Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR10_tpcinnoisep1sigma
46	jzettle@fnal.gov	Detector Systematics - TPC Intrinsic Noise Decrease Variation	Done	MC	200k	caf, LArCV	BNB	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR11_tpcinnoisem1sigma
47	koh0207@stanford.edu	ICARUS BNB Nue Only + CORSIKA	Pending	MC	1M	stage1, caf, LArCV	ML			
48	farnese@pd.infn.it	New Light Variation	Done	MC	200k	stage1, caf, LArCV	Analysis	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR12_pmtdecreaseqde2
49	jzettle@fnal.gov	Detector Systematics - Null Variation	Done	MC	200k	caf, LArCV	Osc. Analysis	OSG	Mateus	2024A_ICARUS_MC_CV_Sys/2024A_Sys_VAR0_null
50	petrillo@slac.stanford.edu	ICARUSmajorityOnlyRuns	Pending	Data		stage1	Trigger		Ivan?	
51	petrillo@slac.stanford.edu	ICARUSrun11926_32_33	Pending	Data	4130	Stage1 (+ calib.)	Trigger		Ivan?	

Link to [spreadsheet](#)

Monitoring

<b>User Grid Usage</b> History of the <i>Running Jobs by User</i> for the last 4 days: <a href="#">link</a>
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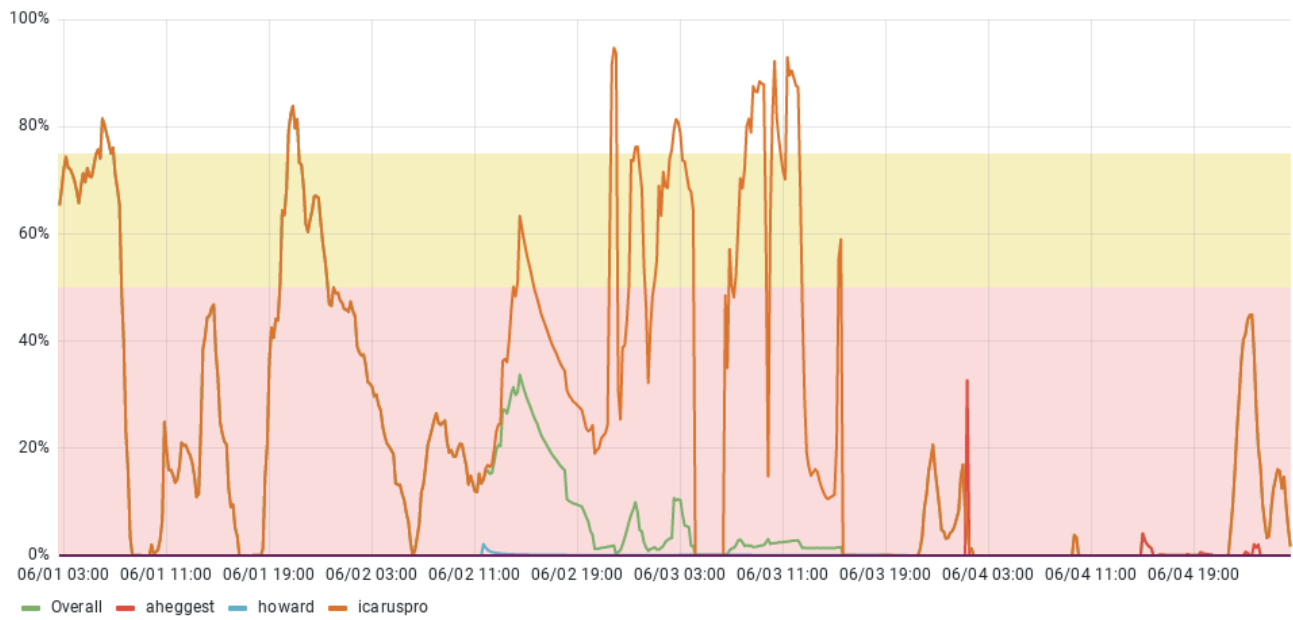
FNAL Onsite Running Jobs by User & GPGrid Quota



### User Job Efficiency

History of the User Job Efficiency for the last 4 days: [link](#)

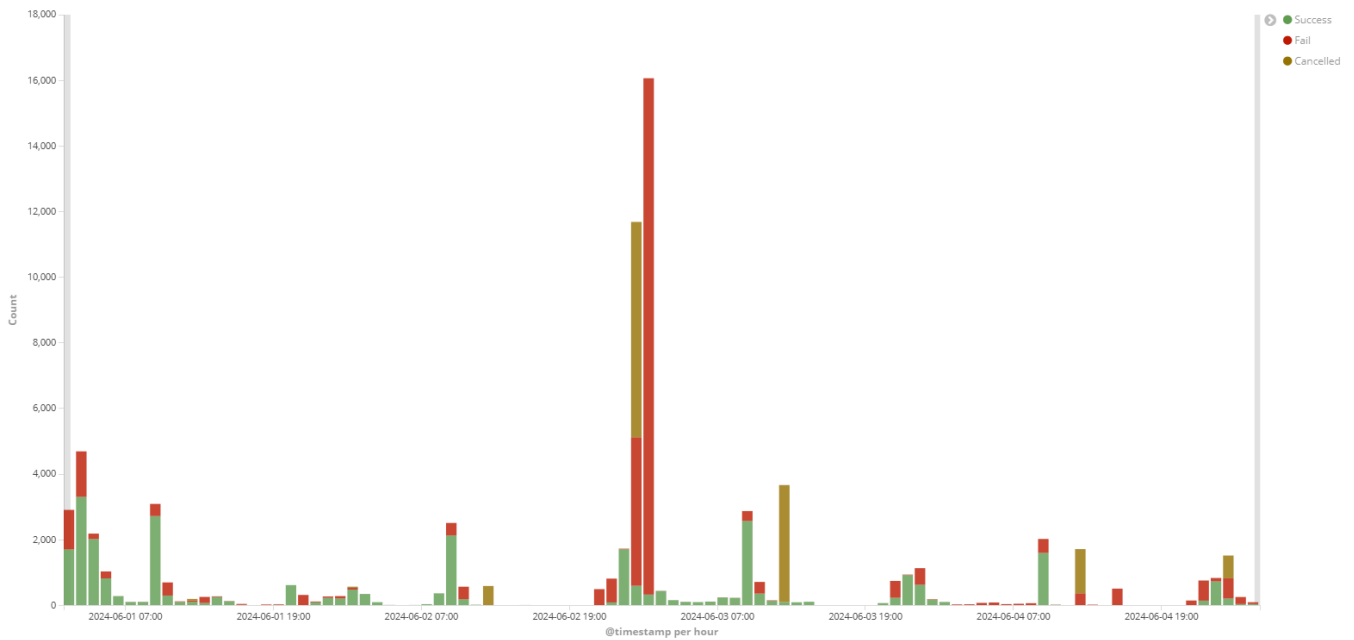
### User & Overall Efficiency



### Icaruspro Jobs Exit Code

History of the icaruspro job exit code for the last 4 days: [link](#)

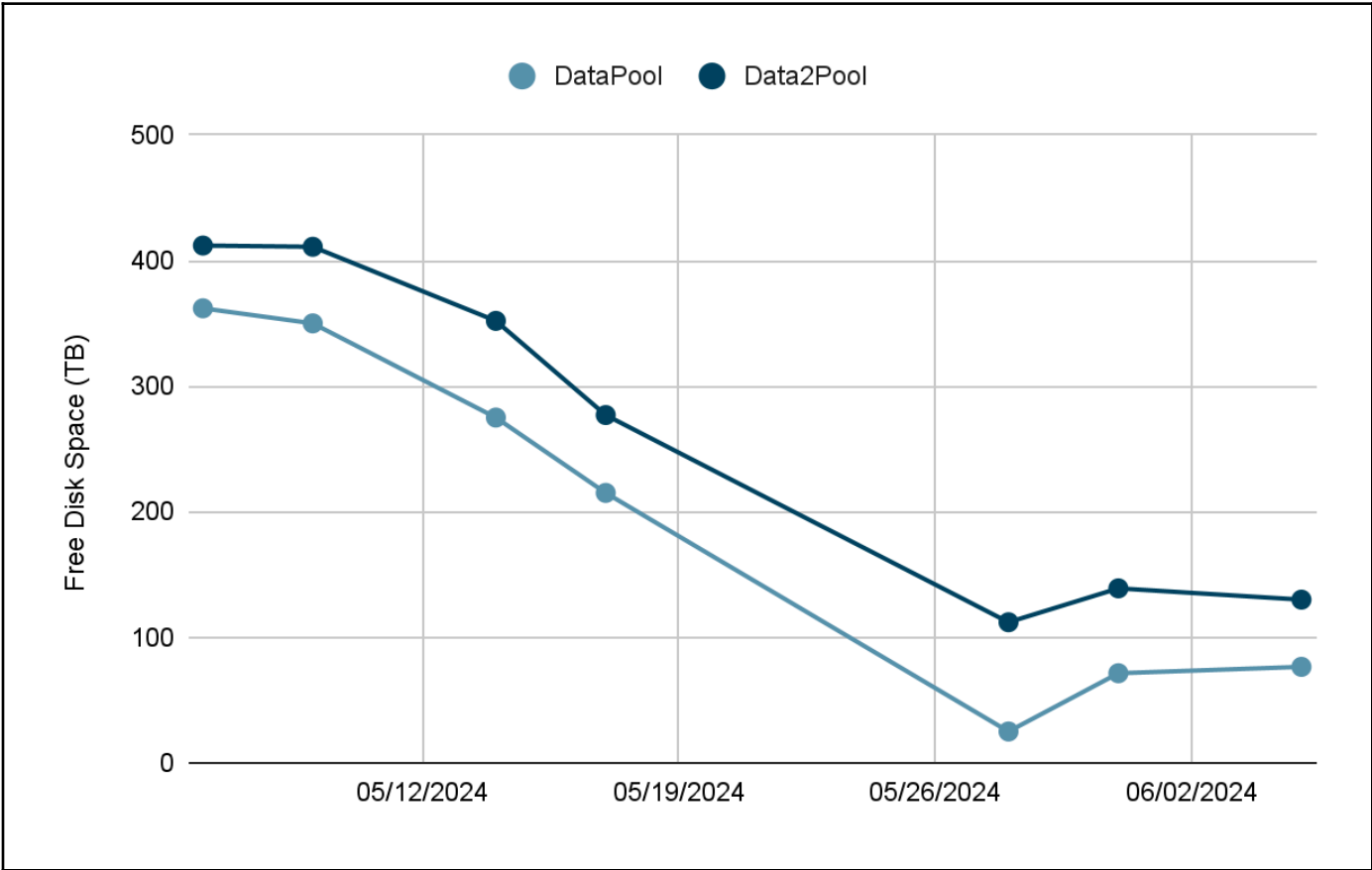
Job Error Rate



**SBN Data Pools**

[link](#)

Data Pools	Size (PB)	Free Space (TB)	Time
SBNDDataPools	1.77	76.5	02:30 05/06/2024
SBNDData2Pools	0.9	130	02:30 05/06/2024



Active Campaigns in POMS

Campaign Name	ID	Creator	Note
NuMI_MC_reprocess_LArCV_wRUCIO_SLAC	8505	drielsma	?
2024A_ICARUS_Run2_Reprocess_DATA_v09_89_01_bnbmajority	8433	promitar	Request #29
2024A_ICARUS_Run2_Reprocess_DATA_v09_89_01_numimajority	8431	promitar	Request #29
2024A_ICARUS_Run2_Reprocess_DATA_v09_89_01_bnbminbias	8430	promitar	Request #29
2024A_ICARUS_simulation_genie_icarus_bnb_volDetEnclosure_MC_CV_Sys	8421	mateusc	Request #30
Run2_NuMI_reprocess_LArCV_wRUCIO_SLAC	8420	drielsma	Request #33
icarus_keepup_Physics_allstreams_Run3	8401	icaro	Keepup

2024_Run3_Run11816_OpticalReconstruction_WG_offbeambnbminbias	8140	promitar	Request #16
icarus_keepup_production_OffbeamBNBMinbias_run2	7404	icaro	Keepup
MCC1.1_icarus_prod_mu_proton_bnblike_cathode	4521	drielsma	?

Link [here](#)

## Notes

- Now there is less than 200 TB of free disk space. So there has been a decrease of more than 500 TB in one month. Where does it come from? Request #29, #13, #14?  
Disk cleanup after larcv needs to start -- Francois with work with Yeon-Jae
- SBND data production will start within 2 two weeks:
  - Monitor free disk space
  - Availability of Mateus will decreases at least temporarily
- Policy on how to name the folder where files of a campaign will be stored.
  - Which subfolders are automatically created by POMS?
  - What is the difference in saving in *poms\_productions* and *poms\_productions/data*? Real VS MC data?  
MFC: Actually this happens depending on which campaign was cloned.
  - What about template campaigns (e.g. mc, run2, ecc...) to be cloned from?
  - Strictly related to the metadata discussion: see action items.
- Production [guide](#) status
- GC: we should keep the various scripts developed for different tasks in a central place... or let me know if this already exists!  
MT: good idea!! I would also propose to have a repository, in addition to the guide, for the issues we faced, how we identified the cause and how we solve it or proceed despite it.  
My propose is to use github.  
Common scripts repository seems a good idea, need to coordinate with Matteo about it
- Tape issues, analyzer unable to prestage files -- Vito directed ticket to storage, GC trying to understand if GM2 is clogging the system
- Pending productions:
  - #34
  - #47
  - #50
  - #51

CNAF

- RUCIO transfers?
- compressed files to CNAF? Waiting for additional disk space

FNAL

- FT: Run test campaign. FT was able to get some results from the test campaign, is of 2 stages:
  - stage0 apparently worked ok with just a few errors, but
  - stage1 is the one that gave me tons of errors, I don't know exactly why,
 In the meantime, could I run another pendant campaign? just to try to advance on something else besides this?
- FD: Request #36? Completed
- PR: Any update on campaigns #13 and #14? I am getting *icaruscode* setup error (exit code 127). In the *icarus\_production* channel Matteo Vicenzi pointed out that the *icaruscode* version (v09\_87\_00) that I was supposed to use for Gianluca's campaign has been removed because of it being a bugged version. So, I need to know which *icaruscode* release Gianluca wants me to run those two remaining campaigns with. Waiting for Gianluca's answer..
- PR: request #29? Status is reported [here](#). CAF data produced (job ends successfully) but files are not registered in samweb because they have no metadata. run2 reprocessing is complete. Need to re-run again to fix SAM declaration due to file name length (thanks Vito+Mateus for the help). Will retire v2 first and double check with GC about disk space before starting v3. For V2 stage1/larcv files were kept on scratch. They are not on disk. But the final version has to be kept on disk as per Justin's request
- MFC:
  - Request 31 was the location fixed? Not yet

Request #	Tag	Folder	# files	# events	size (TB)	Dataset suffix
30		2024A_MC_CV_Sys	5661	203323	2.44	MC_CV_Sys_{filetype}
31	VAR1_untunedtpcsigshape	2024A_Sys_VAR1_untunedtpcsigshape	5661	203316	2.42	Sys_VAR1_untunedtpcsigshape_{filetype}
37	VAR2_tpcind2opaque	2024A_Sys_VAR2_tpcind2opaque	5644	202729	2.45	Sys_VAR2_tpcind2opaque_{filetype}
38	VAR3_tpcind2transparent	2024A_Sys_VAR3_tpcind2transparent	5661	203316	2.45	Sys_VAR3_tpcind2transparent_{filetype}
39	VAR4_tpcind1increasegain	2024A_Sys_VAR4_tpcind1increasegain	5661	203323	2.45	Sys_VAR4_tpcind1increasegain_{filetype}
40	VAR5_tpcind1decreasegain	2024A_Sys_VAR5_tpcind1decreasegain	5657	203148	2.43	Sys_VAR5_tpcind1decreasegain_{filetype}



41	VAR6_pmtdecreasedqe	2024A_Sys_VAR6_pmtdecreasedqe	5660	203284	2.38	Sys_VAR6_pmtdecreasedqe_{filetype}
42	VAR7_ellipsoidalrecomb	2024A_Sys_VAR7_ellipsoidalrecomb	5661	203323	2.44	Sys_VAR7_ellipsoidalrecomb_{filetype}
43	VAR8_tpcchnoise1sigma	2024A_Sys_VAR8_tpcchnoise1sigma	5642	202614	2.44	Sys_VAR8_tpcchnoise1sigma_{filetype}
44	VAR9_tpcchnoisem1sigma	2024A_Sys_VAR9_tpcchnoisem1sigma	5644	202733	2.43	Sys_VAR9_tpcchnoisem1sigma_{filetype}
45	VAR10_tpcintnoise1sigma	2024A_Sys_VAR10_tpcintnoise1sigma	5650	202887	2.60	Sys_VAR10_tpcintnoise1sigma_{filetype}
46	VAR11_tpcintnoisem1sigma	2024A_Sys_VAR11_tpcintnoisem1sigma	5640	202568	2.29	Sys_VAR11_tpcintnoisem1sigma_{filetype}
48	VAR12_pmtdecreasedqe2	2024A_Sys_VAR12_pmtdecreasedqe2	5660	203282	2.39	Sys_VAR12_pmtdecreasedqe2_{filetype}
49	VAR0	2024A_Sys_VAR0_null				Sys_VAR0_null_{filetype}

Dataset prefix:

icaruspro\_production\_v09\_89\_01\_01\_2024A\_ICARUS\_MC\_CV\_Sys\_2024A\_  
Folder root: /pnfs/sbn/data/sbn\_fd/poms\_production/2024A\_ICARUS\_MC\_CV\_Sys/  
Filetype: \_calibtuple, \_stage1, \_larcv, \_flatcaf, \_caf

#### Keepup

- ICT: keepup updated to icaruscode v09\_90\_00 and stage1 fcl file to stage1\_run2\_1d\_icarus.fcl

#### Infrastructure

- GC:

#### Software

- TU:
- MT: Is it possible to profile production releases in terms of RAM, output file size, execution time along the different but almost standard stages (gen, g4, detsim, stage0, stage1, caf, larCV)?

#### Computing

- VDB:

#### Action items

- PR: Location of old processing of request #29 is in /pnfs/sbn/data\_add/sbn\_fd/poms\_production/data/Run2\_Data. Could it be deleted?
- PR: Produce a cfg file suitable for the production #29 (together with Ivan)
- GC: Run deletion campaign
- GC: Monitor datapools situation

- ~~ICT: Setup keepup with new production release and fel files~~
- ALL: Pushing on NuMI WG to get trimming applied to stage1 (Joseph Zennamo)
- ALL: Define a policy for production location and name
- ALL: Define a reference set of metadata fields that should be always filled properly: see [here](#)
- GC: Organize a meeting with calibration WG (1- calib. from keepup in the dedicated area, 2- calib. area management under the responsibility of the WG)
- PR: Update ICARUS production guide
- ~~FT: Run test campaign. Any issue?~~
- DDF: Run compression at CNAF or transfer compressed files
- ~~MFC: Fix request #31 location on disk~~
- ~~MFC: Investigate the issue with available production web page~~
- MT: Figure out the campaign parameters that impact on the disk location of the campaign
- GC: Point us to the script for deleting productions
- ALL: Create a repository for our tools (i.e. scripts, code, etc..)
- ALL: Create a sort of database/list of issues faced during productions with the solution or strategy