

SBN2021_00, August Production, Goal is a 2-week turn around

Current total: ~350,000 events

SBND:

50k **BNB nu+cosmics**, prodoverlay_corsika_cosmics_proton_genie_nu_spill_gsimple-configh-v1_tpc.fcl
50k **In-time cosmics**, prodcorsika_proton_intime_filter.fcl
15k **BNB full-osc + cosmics**, prodoverlay_corsika_cosmics_proton_genie_fullosc_spill_gsimple-configh-v1_tpc.fcl
20k **Crossing Cosmic Muons**, prodsingle_mu_10GeV_cathodecrossing.fcl
15k **BNB nue+cosmics**, prodoverlay_corsika_cosmics_proton_genie_intrnue_spill_gsimple-configh-v1_tpc.fcl

~~50k BNB nue, prodgenie_intrnue_singleinteraction_tpc_gsimple-configh-v1.fcl~~

~~50k BNB nu, prodgenie_nu_singleinteraction_tpc_gsimple-configh-v1.fcl~~

Workflow:

g4_sce.fcl
detsim_sce.fcl
reco1_sce.fcl
reco2_sce.fcl
cafmakerjob_sbnd_sce_geniewgt.fcl

Production request:

SBNDCode: v09_28_01_01

50k BNB nu+cosmic:

prodoverlay_corsika_cosmics_proton_genie_nu_spill_gsimple-configh-v1_tpc.fcl
g4_sce.fcl
detsim_sce.fcl
reco1_sce.fcl
reco2_sce.fcl
cafmakerjob_sbnd_sce_geniewgt.fcl

15k BNB full-osc + cosmics

prodoverlay_corsika_cosmics_proton_genie_fullosc_spill_gsimple-configh-v1_tpc.fcl
g4_sce.fcl
detsim_sce.fcl
reco1_sce.fcl
reco2_sce.fcl
cafmakerjob_sbnd_sce_geniewgt.fcl

15k BNB nue+cosmic

prodoverlay_corsika_cosmics_proton_genie_intrnue_spill_gsimple-configh-v1_tpc.fcl
g4_sce.fcl
detsim_sce.fcl
reco1_sce.fcl
reco2_sce.fcl
cafmakerjob_sbnd_sce_geniewgt.fcl

20k Crossing muons

prodsingle_mu_10GeV_cathodecrossing.fcl
g4_sce.fcl
detsim_sce.fcl
reco1_sce.fcl
reco2_sce.fcl
cafmakerjob_sbnd_sce.fcl

ICARUS:

50k **BNB nu+cosmics**, prodcorsika_bnb_genie_protononly_overburden_icarus.fcl
50k **In-time cosmics**, prodcorsika_proton_intime_icarus_bnb_sce_on_ovb.fcl
50k **NuMI nu+cosmics**, prodcorsika_genie_protononly_icarus_numi_volDetEnclosure_tpc.fcl
15k **BNB full-osc + cosmics**, prodcorsika_bnb_fullosc_genie_protononly_overburden_icarus.fcl
15k **BNB nue+cosmics**, prodcorsika_bnb_nue_genie_protononly_overburden_icarus.fcl
~~20k **Crossing Cosmic Muons**, <NEED FCL>~~

Need to define data production needs

~~50k NuMI nu, simulation_genie_icarus_numi_volDetEnclosure.fcl~~
~~50k BNB nue, simulation_genie_icarus_Mar2019_nue.fcl~~
~~50k BNB nu, simulation_genie_icarus_bnb.fcl~~

Workflow:

Neutrinos

filter_genie_active_icarus.fcl
cosmics_g4_icarus_sce_overburden.fcl

Cosmics

cosmics_g4_icarus_sce_overburden.fcl
intime_g4_icarus_sce_overburden.fcl

All

standard_detsim_icarus.fcl
stage0_multiTPC_icarus_MC.fcl
stage1_multiTPC_icarus_gauss_MC.fcl
cafmakerjob_icarus_sce.fcl

Production request:

ICARUSCode: v09_28_01

50k BNB nu+cosmics

JOB 1
prodcorsika_bnb_genie_protononly_overburden_icarus.fcl
filter_genie_active_icarus.fcl
cosmics_g4_icarus_sce_overburden.fcl
standard_detsim_icarus.fcl
stage0_multiTPC_icarus_MC.fcl

JOB 2
stage1_multiTPC_icarus_gauss_MC.fcl
cafmakerjob_icarus_sce.fcl

50k In-time cosmics

JOB 1
prodcorsika_proton_intime_icarus_bnb_sce_on_ovb.fcl
intime_g4_icarus_sce_overburden.fcl
standard_detsim_icarus.fcl
stage0_multiTPC_icarus_MC.fcl

JOB 2
stage1_multiTPC_icarus_gauss_MC.fcl
cafmakerjob_icarus_sce.fcl

15k BNB full-osc + cosmics

JOB 1

prodcorsika_bnb_fullosc_genie_protononly_overburden_icarus.fcl

filter_genie_active_icarus.fcl

cosmics_g4_icarus_sce_overburden.fcl

standard_detsim_icarus.fcl

stage0_multiTPC_icarus_MC.fcl

JOB 2

stage1_multiTPC_icarus_gauss_MC.fcl

cafmakerjob_icarus_sce.fcl

15k BNB nue+cosmics,

JOB 1

prodcorsika_bnb_nue_genie_protononly_overburden_icarus.fcl

filter_genie_active_icarus.fcl

cosmics_g4_icarus_sce_overburden.fcl

standard_detsim_icarus.fcl

stage0_multiTPC_icarus_MC.fcl

JOB 2

stage1_multiTPC_icarus_gauss_MC.fcl

cafmakerjob_icarus_sce.fcl

50k NuMI BNB nu+cosmics,

JOB 1

prodcorsika_genie_protononly_icarus_num_i_volDetEnclosure_tpc.fcl

filter_genie_active_icarus.fcl

cosmics_g4_icarus_sce_nooverburden.fcl

standard_detsim_icarus.fcl

stage0_multiTPC_icarus_MC.fcl

JOB 2

stage1_multiTPC_icarus_gauss_MC.fcl

cafmakerjob_icarus_sce.fcl

Should save artroot output of JOB 1 to new /pnfs/sbn/data area.

Should save artroot and CAF outputs of JOB 2 to new /pnfs/sbn/data area

Should save calibration ntuples outputs of JOB 2 to /pnfs/icarus/persistent/calibration/calib_ntuples/