

DRCalRoot

Available single particle data sets:

Various data sets listed in the table below can be found in the following disk area

/ilc/sid/wenzel/Grid/combined_data/

which is mounted on detsim.fnal.gov

The segmentation in all cases is 5x5x5 and the total size is 2.5x2.5x2.5 m

in <http://cdcv.fnal.gov/cgi-bin/public-cvs/cvsweb-public.cgi/DRCalRoot/Event?cvsroot=ilcdet>

there are two scripts to analyse the data
Calibration.C to obtain the dual readout correction.

Hits.C to analyse the usual things like timing, transverse and longitudinal profile etc.

Time.C to analyze flight time corrected timing distributions

The comment "time wrong" means that the time of the first energy deposit in the calorimeter cell was filled incorrectly. The time of all the time slots is filled correctly (gives you 1 nsec resolution)

Material	Particle	Energy	Physics List	File name	Events	Comment
BGO	e-	100.0	FTFPBERT	BGO_FTFPBERT_e-_100.0GeV.root		time wrong
BGO	e-	10.0	FTFPBERT	BGO_FTFPBERT_e-_10.0GeV.root		time wrong
BGO	e-	1.0	FTFPBERT	BGO_FTFPBERT_e-_1.0GeV.root		time wrong
BGO	e-	20.0	FTFPBERT	BGO_FTFPBERT_e-_20.0GeV.root		time wrong
BGO	e-	2.0	FTFPBERT	BGO_FTFPBERT_e-_2.0GeV.root		time wrong
BGO	e-	50.0	FTFPBERT	BGO_FTFPBERT_e-_50.0GeV.root		time wrong
BGO	e-	5.0	FTFPBERT	BGO_FTFPBERT_e-_5.0GeV.root		time wrong
BGO	pi-	100.0	FTFPBERT	BGO_FTFPBERT_pi-_100.0GeV.root		time wrong
BGO	pi-	10.0	FTFPBERT	BGO_FTFPBERT_pi-_10.0GeV.root		time wrong
BGO	pi-	1.0	FTFPBERT	BGO_FTFPBERT_pi-_1.0GeV.root		time wrong
BGO	pi-	20.0	FTFPBERT	BGO_FTFPBERT_pi-_20.0GeV.root		time wrong
BGO	pi-	2.0	FTFPBERT	BGO_FTFPBERT_pi-_2.0GeV.root		time wrong
BGO	pi-	50.0	FTFPBERT	BGO_FTFPBERT_pi-_50.0GeV.root		time wrong
BGO	pi-	5.0	FTFPBERT	BGO_FTFPBERT_pi-_5.0GeV.root		time wrong
BGO	e-	100.0	QGSPBERT	BGO_QGSPBERT_e-_100.0GeV_2.root		time wrong
BGO	e-	100.0	QGSPBERT	BGO_QGSPBERT_e-_100.0GeV.root		time wrong
BGO	e-	10.0	QGSPBERT	BGO_QGSPBERT_e-_10.0GeV_2.root		time wrong
BGO	e-	10.0	QGSPBERT	BGO_QGSPBERT_e-_10.0GeV.root		time wrong
BGO	e-	1.0	QGSPBERT	BGO_QGSPBERT_e-_1.0GeV_2.root		time wrong
BGO	e-	1.0	QGSPBERT	BGO_QGSPBERT_e-_1.0GeV.root		time wrong
BGO	e-	20.0	QGSPBERT	BGO_QGSPBERT_e-_20.0GeV_2.root		time wrong
BGO	e-	20.0	QGSPBERT	BGO_QGSPBERT_e-_20.0GeV.root		time wrong
BGO	e-	2.0	QGSPBERT	BGO_QGSPBERT_e-_2.0GeV_2.root		time wrong
BGO	e-	2.0	QGSPBERT	BGO_QGSPBERT_e-_2.0GeV.root		time wrong
BGO	e-	50.0	QGSPBERT	BGO_QGSPBERT_e-_50.0GeV_2.root		time wrong
BGO	e-	50.0	QGSPBERT	BGO_QGSPBERT_e-_50.0GeV.root		time wrong
BGO	e-	5.0	QGSPBERT	BGO_QGSPBERT_e-_5.0GeV_2.root		time wrong
BGO	e-	5.0	QGSPBERT	BGO_QGSPBERT_e-_5.0GeV.root		time wrong
BGO	pi-	100.0	QGSPBERT	BGO_QGSPBERT_pi-_100.0GeV_2.root		time wrong
BGO	pi-	100.0	QGSPBERT	BGO_QGSPBERT_pi-_100.0GeV.root		time wrong
BGO	pi-	10.0	QGSPBERT	BGO_QGSPBERT_pi-_10.0GeV_2.root		time wrong
BGO	pi-	10.0	QGSPBERT	BGO_QGSPBERT_pi-_10.0GeV.root		time wrong
BGO	pi-	1.0	QGSPBERT	BGO_QGSPBERT_pi-_1.0GeV_2.root		time wrong
BGO	pi-	1.0	QGSPBERT	BGO_QGSPBERT_pi-_1.0GeV.root		time wrong
BGO	pi-	20.0	QGSPBERT	BGO_QGSPBERT_pi-_20.0GeV_2.root		time wrong
BGO	pi-	20.0	QGSPBERT	BGO_QGSPBERT_pi-_20.0GeV.root		time wrong
BGO	pi-	2.0	QGSPBERT	BGO_QGSPBERT_pi-_2.0GeV_2.root		time wrong
BGO	pi-	2.0	QGSPBERT	BGO_QGSPBERT_pi-_2.0GeV.root		time wrong
BGO	pi-	50.0	QGSPBERT	BGO_QGSPBERT_pi-_50.0GeV_2.root		time wrong
BGO	pi-	50.0	QGSPBERT	BGO_QGSPBERT_pi-_50.0GeV.root		time wrong
BGO	pi-	5.0	QGSPBERT	BGO_QGSPBERT_pi-_5.0GeV_2.root		time wrong
BGO	pi-	5.0	QGSPBERT	BGO_QGSPBERT_pi-_5.0GeV.root		time wrong
PbF2	antiproton	1.0	FTFPBERT	PbF2_FTFP_BERT_anti_proton_1GeV.root	10000	time correct

PbF2	antiproton	2.0	FTFPBERT	PbF2_FTFP_BERT_anti_proton_2.0GeV.root	1000	time correct
PbF2	antiproton	5.0	FTFPBERT	PbF2_FTFP_BERT_anti_proton_5.0GeV.root	1000	time correct
PbF2	antiproton	10.0	FTFPBERT	PbF2_FTFP_BERT_anti_proton_10.0GeV.root	10000	time correct
PbF2	antiproton	20.0	FTFPBERT	PbF2_FTFP_BERT_anti_proton_20.0GeV.root	1020	time correct
PbF2	antiproton	50.0	FTFPBERT	PbF2_FTFP_BERT_anti_proton_50.0GeV.root	1000	time correct
PbF2	proton	1.0	FTFPBERT	PbF2_FTFP_BERT_proton_1.0GeV.root	1100	time correct
PbF2	proton	2.0	FTFPBERT	PbF2_FTFP_BERT_proton_2.0GeV.root	1000	time correct
PbF2	proton	5.0	FTFPBERT	PbF2_FTFP_BERT_proton_5.0GeV.root	1000	time correct
PbF2	proton	10.0	FTFPBERT	PbF2_FTFP_BERT_proton_10.0GeV.root	1000	time correct
PbF2	proton	20.0	FTFPBERT	PbF2_FTFP_BERT_proton_20.0GeV.root	1000	time correct
PbF2	proton	50.0	FTFPBERT	PbF2_FTFP_BERT_proton_50.0GeV.root	1000	time correct
PbF2	K+	1.0	FTFPBERT	PbF2_FTFP_BERT_kaon+_1.0GeV.root	1000	time correct
PbF2	K+	2.0	FTFPBERT	PbF2_FTFP_BERT_kaon+_2.0GeV.root	1000	time correct
PbF2	K+	5.0	FTFPBERT	PbF2_FTFP_BERT_kaon+_5.0GeV.root	1000	time correct
PbF2	K+	10.0	FTFPBERT	PbF2_FTFP_BERT_kaon+_10.0GeV.root	1000	time correct
PbF2	K+	20.0	FTFPBERT	PbF2_FTFP_BERT_kaon+_20.0GeV.root	1000	time correct
PbF2	K+	50.0	FTFPBERT	PbF2_FTFP_BERT_kaon+_50.0GeV.root	1000	time correct
PbF2	K-	1.0	FTFPBERT	PbF2_FTFP_BERT_kaon-_1.0GeV.root	1000	time correct
PbF2	K-	2.0	FTFPBERT	PbF2_FTFP_BERT_kaon-_2.0GeV.root	1000	time correct
PbF2	K-	5.0	FTFPBERT	PbF2_FTFP_BERT_kaon-_5.0GeV.root	1000	time correct
PbF2	K-	10.0	FTFPBERT	PbF2_FTFP_BERT_kaon-_10.0GeV.root	1000	time correct
PbF2	K-	20.0	FTFPBERT	PbF2_FTFP_BERT_kaon-_20.0GeV.root	1000	time correct
PbF2	K-	50.0	FTFPBERT	PbF2_FTFP_BERT_kaon-_50.0GeV.root	1000	time correct
PbF2	e-	100.0	FTFPBERT	PbF2_FTFPBERT_e-_100.0GeV.root		time wrong
PbF2	e-	10.0	FTFPBERT	PbF2_FTFPBERT_e-_10.0GeV.root		time wrong
PbF2	e-	1.0	FTFPBERT	PbF2_FTFPBERT_e-_1.0GeV.root		time wrong
PbF2	e-	20.0	FTFPBERT	PbF2_FTFPBERT_e-_20.0GeV.root		time wrong
PbF2	e-	2.0	FTFPBERT	PbF2_FTFPBERT_e-_2.0GeV.root		time wrong
PbF2	e-	50.0	FTFPBERT	PbF2_FTFPBERT_e-_50.0GeV.root		time wrong
PbF2	e-	5.0	FTFPBERT	PbF2_FTFPBERT_e-_5.0GeV.root		time wrong
PbF2	neutron	1.0	FTFPBERT	PbF2_FTFP_BERT_neutron_1.0GeV.root	1000	time correct
PbF2	neutron	2.0	FTFPBERT	PbF2_FTFP_BERT_neutron_2.0GeV.root	1000	time correct
PbF2	neutron	5.0	FTFPBERT	PbF2_FTFP_BERT_neutron_5.0GeV.root	11000	time correct
PbF2	neutron	10.0	FTFPBERT	PbF2_FTFP_BERT_neutron_10.0GeV.root	2000	time correct
PbF2	neutron	20.0	FTFPBERT	PbF2_FTFP_BERT_neutron_20.0GeV.root	9722	time correct
PbF2	neutron	50.0	FTFPBERT	PbF2_FTFP_BERT_neutron_50.0GeV.root	1771	time correct
PbF2	pi-	100.0	FTFPBERT	PbF2_FTFPBERT_pi-_100.0GeV.root		time wrong
PbF2	pi-	10.0	FTFPBERT	PbF2_FTFPBERT_pi-_10.0GeV.root		time wrong
PbF2	pi-	1.0	FTFPBERT	PbF2_FTFPBERT_pi-_1.0GeV.root		time wrong
PbF2	pi-	20.0	FTFPBERT	PbF2_FTFPBERT_pi-_20.0GeV.root		time wrong
PbF2	pi-	2.0	FTFPBERT	PbF2_FTFPBERT_pi-_2.0GeV.root		time wrong
PbF2	pi-	50.0	FTFPBERT	PbF2_FTFPBERT_pi-_50.0GeV.root		time wrong
PbF2	pi-	5.0	FTFPBERT	PbF2_FTFPBERT_pi-_5.0GeV.root		time wrong