1 dictionary for third production

The following quantities are filled for each event **RunId** : id of run **EventId** : id of event **Vz** : primary vertex Z position **NTrk** : number of all tracks **gRefMult** : gRefMultiplicity **QXE** : component X of the Q vector using tracks with eta >0 **QYE** : component Y of the Q vector using tracks with eta <0 **QXW** : component X of the Q vector using tracks with eta <0 **QYW** : component Y of the Q vector using tracks with eta <0 **QYW** : component Y of the Q vector using tracks with eta <0 **EPE**: event plane using using tracks with eta>0, before recentering **EPW** : event plane using using tracks with eta>0, before recentering **Candidates** : number of pairs K-pi **EventPlane** : not filled

The following are filled for each candidate **PtD0** : transverse momentum of D0 candidate **PD0** : momentum of D0 candidate MassD0: mass of D0 candidate EtaD0 : pseudo-rapidity of D0 candidate **RapD0** : rapidity of D0 candidate AziD0 : azimuthal angle of d0 candidate PtKaon : transverse momentum of kaon daughter PtPion : transverse momentum of pion daughter **PKaon** : momentum of kaon daughter **PPion** : momentum of pion daughter ChargeKaon : charge of kaon daughter ChargePion : charge of pion daughter SiKaon : number of silicon hits for kaon daughter SiPion : number of silicon hits for pion daughter dEdxKaon : dEdx of kaon daughter dEdxPion : dEdx of pion daughter ndEdxKaon : ndEdx of kaon daughter **ndEdxPion** : ndEdx of pion daughter dcaXYKaon : distance of closest approach to primary vertex in transverse direction for the kaon daughter dcaXYPion : distance of closest approach to primary vertex in transverse direction for the pion daughter dcaZKaon : distance of closest approach to primary vertex in longitudinal direction for the kaon daughter dcaZPion : distance of closest approach to primary vertex in longitudinal direction for the pion daughter PhiKaon : azimuthal angle of kaon daughter PhiPion : azimuthal angle of pion daughter SigmaDcaXYKaon : error of DCA in transverse direction for the kaon daughter SigmaDcaXYPion :error of DCA in transverse direction for the pion daughter DcaTrackTXY : distance between daughter tracks at the secondary vertex in transverse direction

DcaTrackTZ : distance between daughter tracks at the secondary vertex in longitudinal direction **slength** : signed decay length

dslength : error of signed decay length
probability : probability of fit
CosPointing : angle beteew the line joining the primary vertex and secondary and the momentum of D0
thetaGJ : angle of kaon daughter with the D0 momentum in D0 frame
kLen0 : signed length of kaon daughter to secondary vertex (from TCFIT)
kLen1 : signed length of pion daughter to secondary vertex (from TCFIT)

dkLen0 : error of signed length of kaon daughter to secondary vertex (from TCFIT)

dkLen1 : error of signed length of pion daughter to secondary vertex (from TCFIT)

2 cuts

static const Double_t **pTCut** = 0.5; // transverse momentum cut static const Double_t PCut = 2.0; // momentum cut static const Double_t sumPCut = 1.5 ; // sum of momentum(kaon)+momentum(pion) static const Double_t **mKpiMin** = 1.2; // min mass of (Kpi) association static const Double t **mKpiMax** = 2.2; // max mass of (Kpi) association static const Double_t DcaCut = 0.2; // single track DCA to PV static const Int_t TpcCut = 25; // TPC hits fitted static const Float_t TpcRatioCut = 0.51; // TPC hits fitted / TPC hits Poss static const Double_t TrackLengthCut = 40; // min value for dEdxTrackLength static const Int_t SiCut = 2; // (SVT+SSD) hits fitted static const Int_t SvtCut = 3; // (SVT) hits fitted static const Int_t SsdCut = 1; // (SSD) hits fitted static const Float_t RadiusCutSvt1 = 9.0; static const Float_t RadiusCutSvt2 = 13.0; static const Float_t SigmaPionCut = 2.5; // nsigma for pion static const Float t SigmaKaonCut = 2.5; // nsigma for kaon static const Float t SigmaProtonCut = 3.; // nsigma for Proton static const Double_t EtaCut = 1.2; // track pseudorapidity static const Double_t zcut = 10; // zvertex cut static const Double_t PrimZResCut = 0.020; // zvertex resolution cut static const Double t cosThetaCut = 1; static const Double_t rapCandCut = 1.0; static const Double_t slengthCut =.2; // max value of decaylength calculated by TCFIT static const Double_t dslengthCut =.1; // max value of the error associated to the decaylength from TC-FIT static const Double_t ProbCut =.05; // min value of probability of FIT static const Int_t writeHisto = 1; // flag to write histos