Cluearte

Cluearte is the ARTE interface to the BEE analysis library.

T. Glebe

Contents

1 Read/Write BEE events in ARTE

Names

1.1 int **clueWriteEvent** (const TableFillBase& tf)

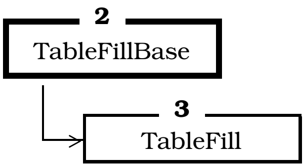
Write current ARTE event into a CLUE file

Write current ARTE event into a CLUE file. The filename is given by /CLUE/SETFILENAME

2 class **TableFillBase**

BEE event filling interface.

Inheritance



Public Members

virtual bool
: **EventSelect** () const
: *returns false in case event should be skipped*

virtual bool
: **Fill** () const
: *fill all tables, called in clueWriteEvent()*

virtual bool
: **FillRSEG** () const
: *fill from RSEG table*

Abstract class which defines the cluearte interface for user defined filling procedures. You can define your own BEE event filling routines by inheriting a class from `TableFillBase` and overloading the pure virtual functions of the base class.

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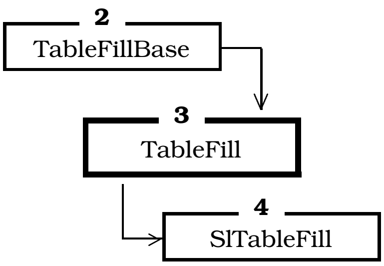
class **TableFill** : public TableFillBase

BEE event filling: 1 to 1 copy

Inheritance



Public Members

— Constructors —

TableFill ()

TableFill (double e)
set track energy threshold

virtual **~TableFill** ()

— Functions —

virtual bool
EventSelect () const
returns false in case event should be skipped

virtual bool
Fill () const *fill all tables, called in clueWriteEvent()*

virtual bool
FillRSEG () const
fill from RSEG tables

virtual bool
FillWire () const *fill Wire table*

virtual bool

FillRecoTrack () const
fill RecoTrack table

virtual bool
FillRecoVertex () const
fill RecoVertex table

virtual bool
FillMCtrack () const
fill MC tracks

virtual bool
FillMCvertex () const
fill MC vertices

virtual bool
FillMisc () const *fill other information*

virtual bool
FillSelectedMCtrack () const
fill MC tracks if above energy threshold

virtual bool
FillSelectedMCvertex () const
fill MC vertices if tracks above threshold

— Access methods —

inline void
set_min_energy (double e)
MC: set min. energy of particles to be copied

Class which defines a way to fill a BEE event. The TableFillBase interface class is used. The TableFill class performs a 1:1 copy of ARTE tables to BEE tables. In case of writing MC truth information, an energy threshold for the MC tracks (MTRA in ARTE) can be set. Then only those MTRA tracks are stored in BEE, which have an energy above the threshold. This gives the user the possiblity to optionally avoid low-energetic tracks from shower simulations. This can reduce the size of an BEE file considerably.

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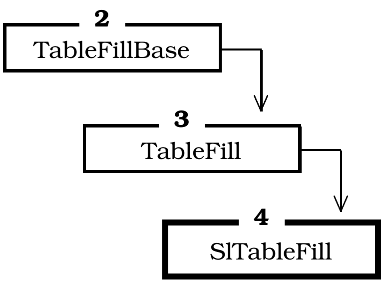
class **SlTableFill** : public TableFill

Single Lepton data BEE event filling

Inheritance



Public Members

— Constructors —

SlTableFill ()

virtual ˜**SlTableFill** ()

— Functions —

virtual bool
EventSelect () const
call anl_evselect() from ARTE/analysis

virtual bool
FillRecoTrack () const
use anl_TrSelect()

virtual bool
FillRecoVertex () const
do not save RVER's

virtual bool
FillMisc () const *fill other information*

Class which defines a way to fill a BEE event for a Single Lepton data analysis. The TableFill class is used as a base class in order to reuse the filling of MC truth information from the `TableFill` class.

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Class Graph