

LEE Analyser Tree

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Introduction

Every field will start with **name**, **type**, **Reco** or **truth info**.

Definitions of fields

1. **category**

UInt_t, Truth

Possible values:

k_cosmic = 1	There was no neutrino generated in the event. Or, the selected PNC has only reconstructed tracks/showers that are matched to cosmic origin.
k_nu_e = 2	Generated neutrino inside TPC and ν_e . And, the selected PNC has only reconstructed tracks/showers that are matched to neutrino origin.
k_nu_mu = 3	Generated neutrino inside TPC and ν_μ . And, the selected PNC has only reconstructed tracks/showers that are matched to neutrino origin.
k_nc = 4	Generated neutrino interaction is NC (in/out TPC). And, the selected PNC has only reconstructed tracks/showers that are matched to neutrino origin.
k_dirt = 5	Generated neutrino interaction was not NC and outside the TPC active volume.
k_data = 6	Data, no truth info available.
k_mixed = 7	The selected PNC has reconstructed tracks/showers that are matched to neutrino and cosmic origin.
k_other = 0	None of the reconstructed tracks/showers of the selected PNC could be matched to cosmic/neutrino origin. (Can only be used if the category was not k_dirt already.)

2. **reconstructed_energy**

vector < double >, Reco

Sum of the reconstructed energy of the tracks/showers (see definitions) associated to the selected PNC. Three values for the three planes, given in GeV.

3. **n_tracks**

UInt_t, Reco

blabla

A List of types

`UInt_t` A 32 bit unsigned integer.

B List of abbreviations

PNC Pandora neutrino candidate particle flow particle

TPC Time projection chamber

NC neutral current