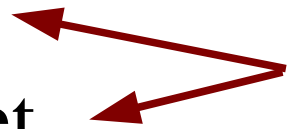
Classification : What do we mean ?

- Framework designed to perform cross checks of local hadronic calibration both from MC and data

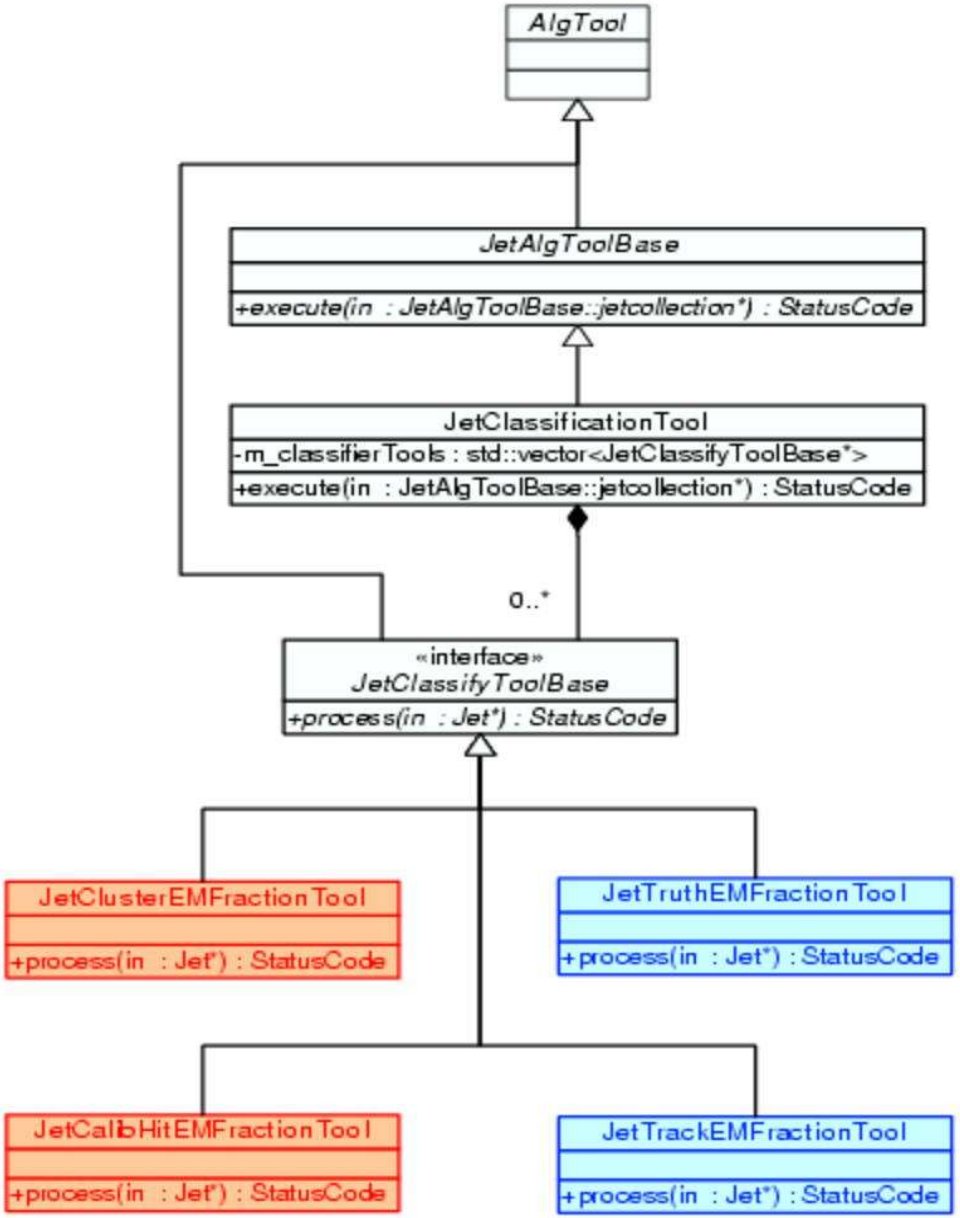
- find correlation between
  -energy in clusters classified as EM
  -energy of tracks assoziated to the jet
  -MC truth from particle level
  -MC truth from Calibration Hits
  (EM energy deposited in detector during shower)



Classification : What do we do ?

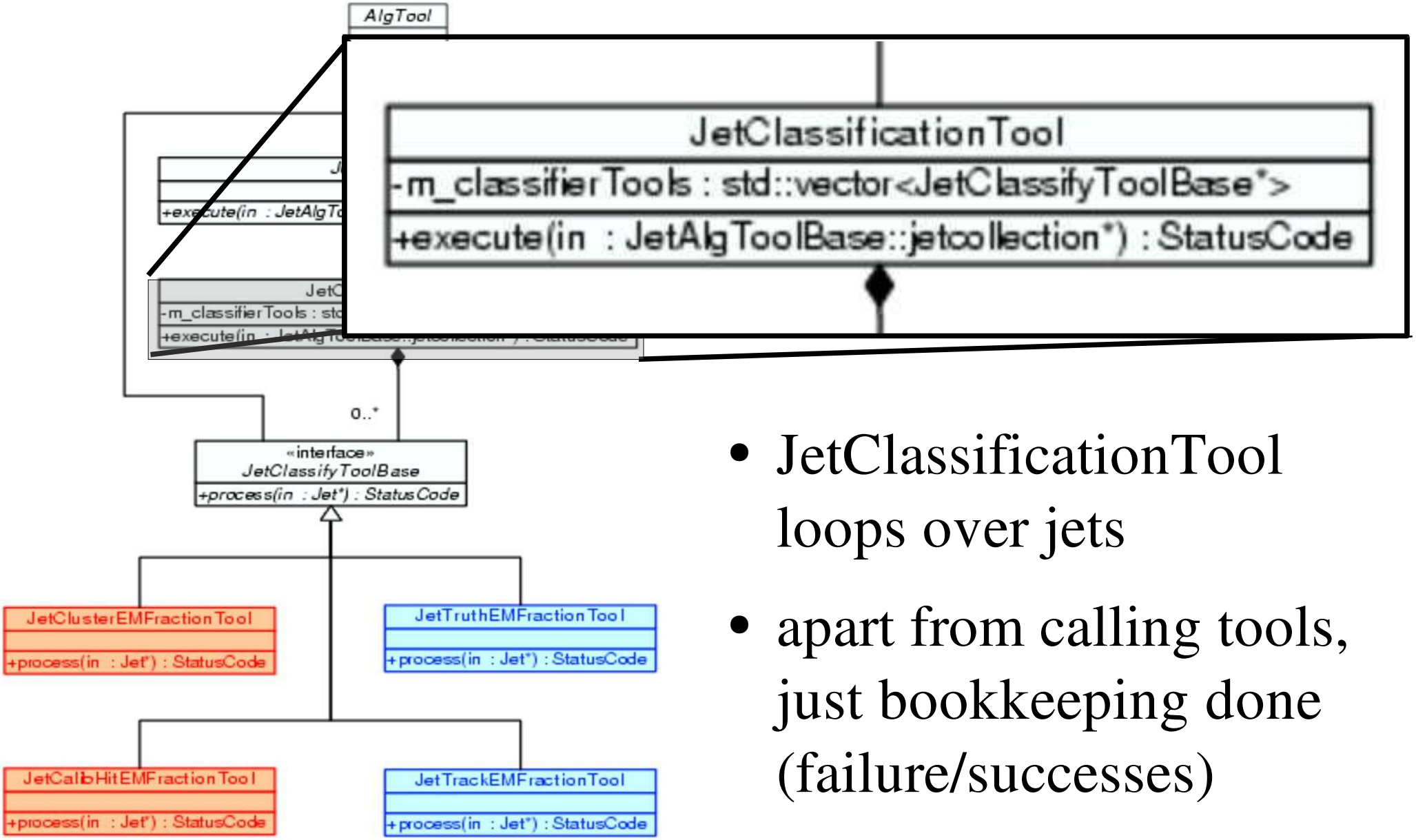
- disclaimer: code still under development,
  not in cvs (yet)
- work done (28.-30.Nov.) by M.Lefebvre, P.Loch, R.McPherson, A.Savine, R.Seuster and K.Voss
- added JetMoment(Store) to Jet class,
  similar to CaloClusterMoment(Store)
- added several new classes to JetRec

Classification : Class Diagram



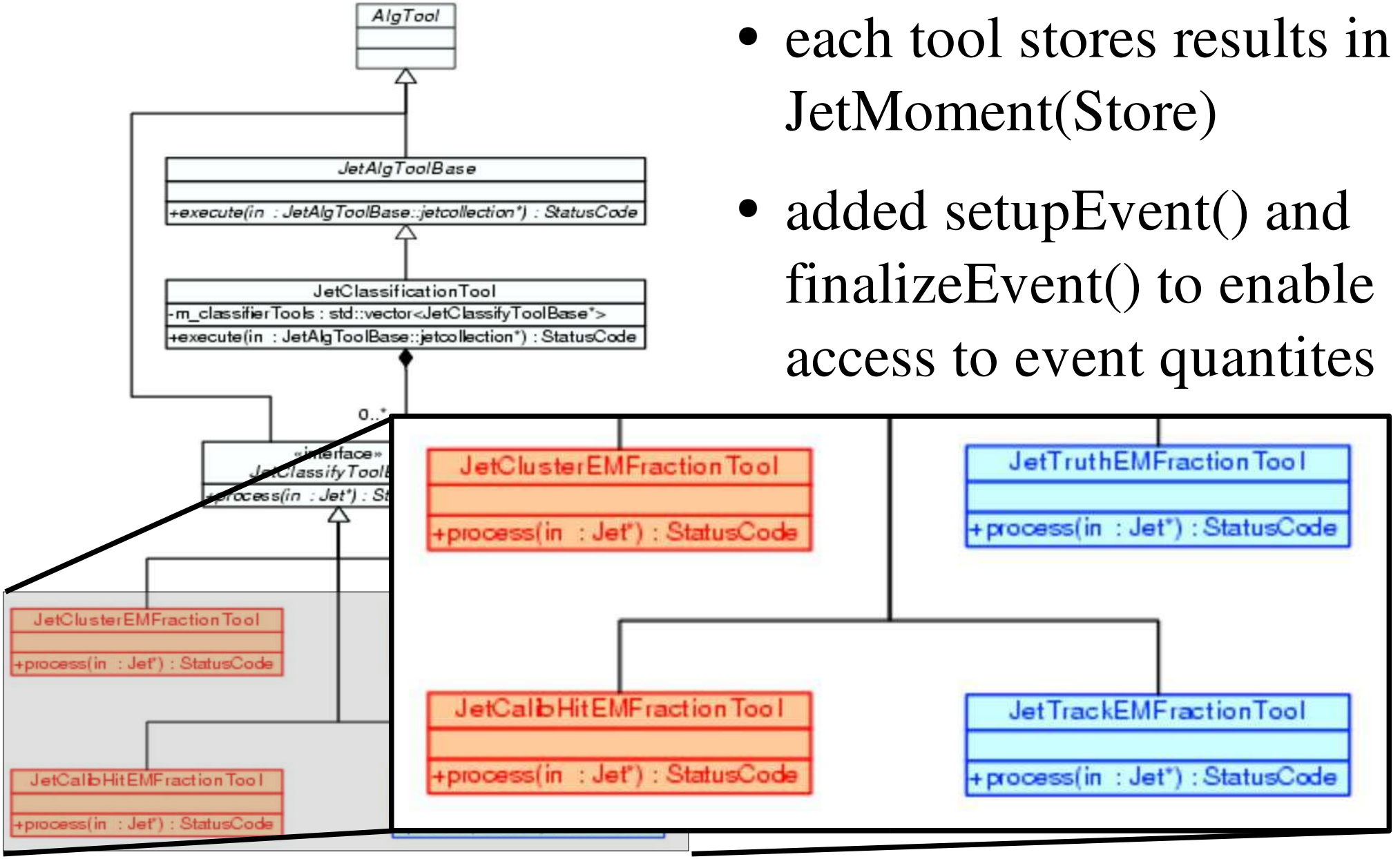
- JetClassificationTool can be called from JetAlgorithm like any other tool for jetmonitoring (later)
- via jobOptions, any other JetClassifyTool can be called

Class Diagram : JetClassificationTool



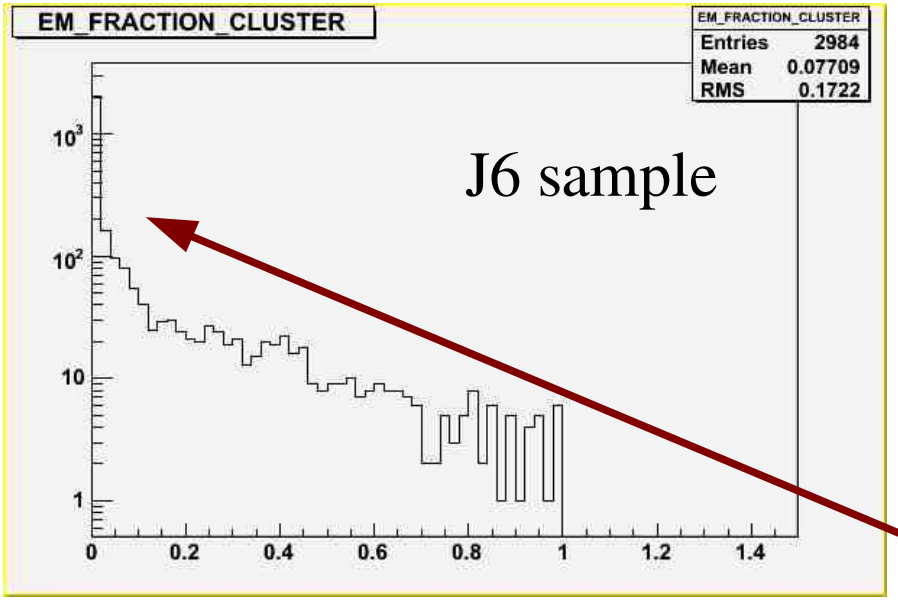
- JetClassificationTool loops over jets
- apart from calling tools, just bookkeeping done (failure/successes)

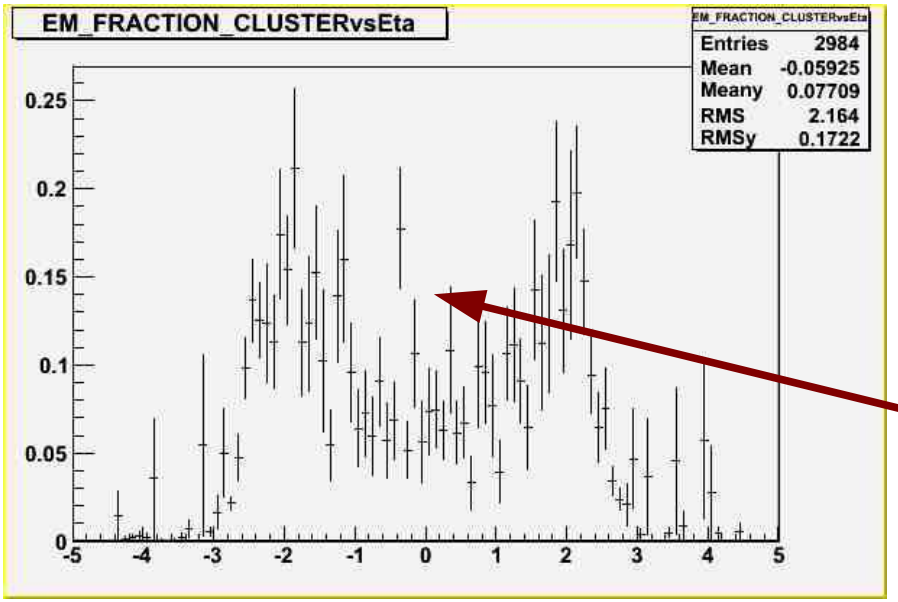
Class Diagram: JetClassifyToolBase



- each tool stores results in JetMoment(Store)
- added setupEvent() and finalizeEvent() to enable access to event quantites

Results: JetClassificationTool (prel.)





- so far, only 1 tool running (no correlations, sorry!)
- most jets have small fraction of clusters classif. as EM
- η dependence (?), better classification in barrel expected