Calorimeter miscalibrator

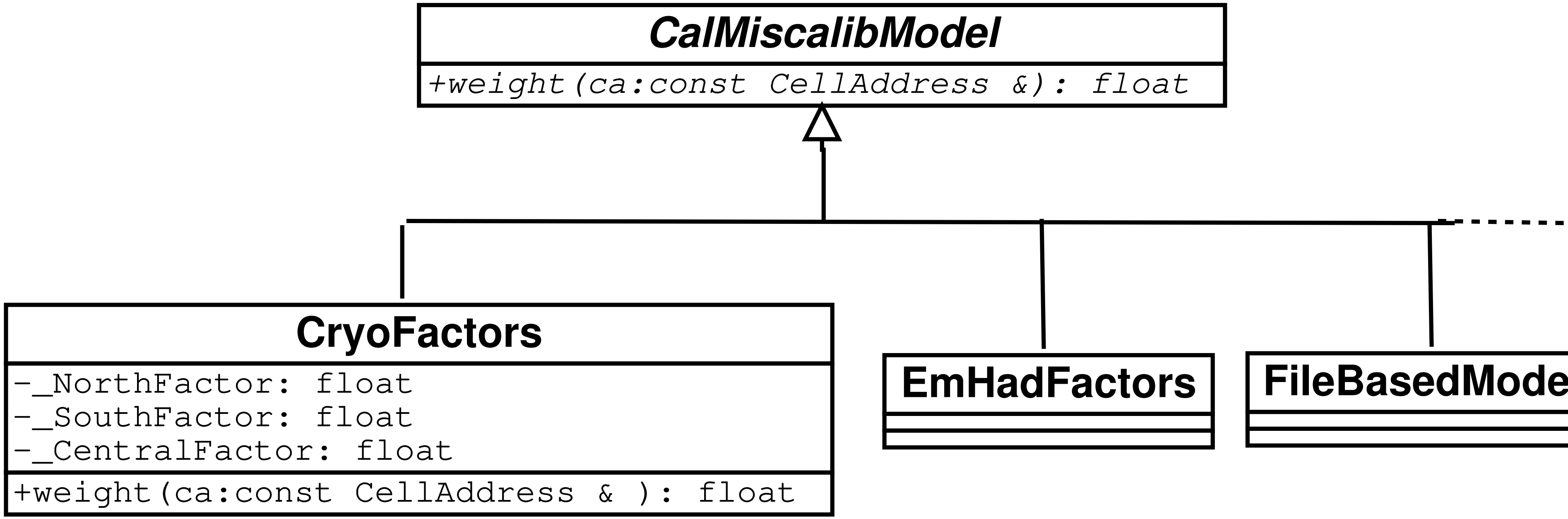
- A tool to change the calibration of the calorimeter in order to study the calibration procedures and performances.
- Very similar to CalWeight
- In two parts:
  - the framework package that actually modifies the calorimeter data
  - miscalibration models used by the framework package

CalMiscalibrator

- The framework package, very similar to CalWeight: modify CalDataChunk. Should be called before any other calorimeter based algorithm or tool.
- The package RCP file should refer to the model RCP
  - `RCP model =  < cal_calib_tools CryoFactors >`
- The model name is given in the model RCP file and must be known to CalMiscalibrator.

Miscalibration models

- Right now, should be implemented as a C++ class that inherits from the (purely abstract) CalMiscalibModel class
  - force to implement
    - `float weight(const CellAddress & ca) const;`
- One example implemented: CryoFactors that implements different calibration constants for ECN, CC and ECS


CalMiscalibModel
+weight(ca:const CellAddress &): float
CryoFactors
-_NorthFactor: float
-_SouthFactor: float
-_CentralFactor: float
+weight(ca:const CellAddress &): float
EmHadFactors
FileBasedModel

Miscalibration models (cont’d)

- Alternaltively, one could implement a generic model, reading weights from a DSPACK file written by a standalone program
  - don’t need to modify CalMiscalibrator for every new model
  - don’t save much of the work
  - must reproduce the file for every parameter set

Feedback

- Does this looks user friendly enough ?
- Comment on class names and methods
- What cvs package
  - cal_calib_tools   on my private area
- Should I implement the generic, file based, miscalibration model ?