
Subject: Re: Detector ID.

Posted by [Mohammad Al-Turany](#) on Mon, 04 Aug 2008 11:31:39 GMT

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Hi,

I think it is useful to summarize what kind of Id's are there and how they are used tell now:

1. CbmModule has a protected member fModId which is used internally in the framework!
2. CbmDetector has a member fDetId which can be set from the detector constructor as detector identifier. e.g. In CBM there is an enum:

```
enum DetectorId {kREF, kMVD, kSTS, kRICH, kMUCH, kTRD, kTOF, kECAL, kZDC,
kSTT,kTutDet};
```

these values are hardcoded in the detector constructors. e.g:

```
CbmRich::CbmRich() : CbmDetector("RICH", kTRUE, kRICH)
```

These id's are also used for the stack filtering!

3. in CbmVolume:

```
Int_t fVolumId;    /**Volume Id in GeoManager*/
Int_t fMCId;      /**Volume Id in MC*/
```

these two are usually identical if you use the TGeoManager as geometry description and navigation! otherwise they could differ! they are simply the unique identifier of a volume in the geometry.

So I think we need an enum to identify the detector generally and for those detectors who need more than an integer I would do it like in the emc! so that one can find out from a point in which volume, sector, ..etc it was registered!

regards

Mohammad