
Subject: Fast Sim Macro with parametrized detector options
Posted by [Klaus Götzen](#) on Fri, 04 Apr 2014 12:55:53 GMT
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Dear all,

I just checked in another `simfast_opt.C` which allows to control some detector options per parameter string.

```
void simfast_opt(TString Prefix, TString Decfile, Float_t Mom, Int_t nEvents = 1000, TString  
Resonance="pbarpSystem0", int Pdgcode = 11,  
    TString DetOpt="MvdGem EmcBar Drc Dsc FwdSpec" )
```

DetOpt : Parameter string to control detector setup for scrutiny process with some predefined options. For other configurations better use `simfast.C`

Appearance of each parameter is a *positive* switch! Default value "MvdGem EmcBar Drc Dsc FwdSpec" represents complete detector.

Detectors always being enabled are: EmcFwd, EmcBw, STT, Barrel MUO
FwdSpec = EMC FS, Fwd MUO, Fwd tracking, RICH

- MvdGem : Enable MVD and GEM for central tracking in addition to STT
- EmcBarrel : Enable EMC barrel for calorimetry (neutral detection and PID component)
- Drc : Enable Barrel DIRC for PID
- Dsc : Enable Disc DIRC for PID
- FwdSpec : Enable complete Forward Spectrometer (= Fwd Spec. EMC, Fwd Tracking, RICH, Fwd MUO)

So it can be specified with the parameter string which of the controllable components are enabled. You might give it a try and report any inconsistency you observe.

Best and have a nice weekend,
Klaus