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Introduction

The CombinedParticleMaker is a Gaudi tool in the LHCb DaVinci physics analysis framework. Its purpose is to create charged Particles from the charged ProtoParticles produced at the end of the reconstruction phase, Brunel, by applying various selection cuts on the PID information stored in (or available from via SmartRefs) the ProtoParticles.

Implementations

DC04

The DC04 implementation can be found [here](#).

In this implementation, the technical details on how to apply the selection cuts was embedded inside the CombinedParticleMaker tool itself.

DC06

During the transition to the DC06 software environment, a change was made in how selections are applied to the ProtoParticles. A new set of Gaudi tools was created in the package ProtoParticleFilters. These tools implement the core functionality of applying a general selection to a ProtoParticle and are now used by the CombinedParticleMaker. The advantage of this change is the ProtoParticleFilters can also be used by other tools or algorithms as needed. One example is the DLL Particle filter.

More details on the new style of Particle Maker job option syntax can be found on the ProtoParticleFilters twiki page.

ChrisRJones - 12 Dec 2006

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