

Status of HepMC and HepPDT

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Introduction

- HepPDT - Particle Data Table Attributes
- HepMC - Monte Carlo event information
- Part of CLHEP since 2001
- BUT parallel HepMC was maintained by Matt Dobbs

Changes

- Discussions at CERN:
 - Move away from CLHEP
 - Agreement to have LCG HepMC
 - The Matt Dobbs original version
 - CMS making the biggest concessions
- Further discussions
 - Both HepPDT and HepMC become standalone LCG products

Where we stand now

- HepMC 1.26.01 about to be released
 - Bug fix
- HeavyIon class in 1.27.01 beta release
 - Validation needed
- CMS has requested Mathcore GenVector instead of CLHEP Vector

Issues

- C++ Monte Carlo generators (Herwig++, Pythia8) are using CLHEP
- Reluctance on part of everyone except CMS to actually move away from CLHEP
- CMS is requesting that LCG live up to its end of the agreement and allow changes