

HepMC Report from MC4LHC

- CMS requested MathCore GenVector
- Others want no change to Lorentz vector
- Concern about dependencies
- Solution: simple vector
- PdfInfo class requested by CMS
- Include generated mass

The Simple Vector Proposal

- Remove all dependencies
- Replace HepLorentzVector with **minimal** simple vector
- Use templated constructor to make this *mostly* backwards compatible
- Pere has promised ROOT IO backwards fix

Game Plan

- HepMC is a LCG external package:
 - <http://savannah.cern.ch/projects/HepMC/>
- About to release HepMC 1.28 with PdfInfo
- HepMC 2 with simple vector
 - Proposal at savannah site
 - Complete implementation by the end of August (actually, as soon as I can get it out the door.)
- HepMC, HepPDT, StdHep to be removed from CLHEP
 - Only after HepMC 2 is released