

EvtGen @ CDF

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Status and issues

- Uses version alpha-00-14-05 plus some bug fixes
 - Not easy for me to find out what bug fixes are done
- Practically untouched since 2005
- Only minor update to particle properties to 2008 PDG
- Naming convention and particle codes do not match PDG scheme
- Interfacing to PHOTOS and PYTHIA causes some inconsistencies
- Need to validate new version by experiment
 - Now updating to new version could cause lot of work on validation side

Wishes

- Deal in transparent way with different quantum behaviour of system at B-factories and hadron machines
- Regular update of particle properties and decay tables
- Allow to handle polarization on input and output, not just internally
- Generic model for Dalitz structures where user can easily define content of the model
- V-A model for semileptonic decays without known form factor
- Amount of changes we do probably also depends on decision about Run 3 extension