EvtGen

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Background

- First versions of EvtGen emerged in 1995 to simulate semileptonic B decays at CLEO.
  - David Lange and I were graduate students working on b->u and b->c transitions respectively and needed a 'sharper' tool.
- In 1996 I started on BABAR and we needed to improve the simulation of B decays. EvtGen was significantly modified at this point.
- Since then EvtGen has been improved and tuned for B^0 and B^+ decays at BABAR by many people.
- David Lange and I are the main developers, doing this on our spare time.
- The home page for EvtGen is at: http://www.slac.stanford.edu/~lange/EvtGen/

Collaborations with other experiments

- EvtGen is used, at some capacity, at several different experiments
  - CDF/D0 work on extensions to *B* baryons and B_s mesons, and incoherently produced *B* hadrons for mixing and *CP* violation.
    - Though some work has been done, this needs much more attention, as it has not been a focus at BABAR.
  - Belle have similar needs as BABAR, has provided bug fixes and improvements to semileptonic decays.
  - CLEO-c, detailed simulation of production of charmed mesons.
  - LHC experiments...
    - I need to better understand what you are seeing as your needs.
    - What technical problems are there with using the code etc.
- In general I don't think we have a good way of sharing code across experiments. I would like to understand how to improve this.