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AlpGen production

Introduction

A collection of codes for the generation of multi-parton processes in hadronic collisions. More information is here http://mlm.home.cern.ch/mlm/alpgen/

Authors:

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References:

- ALPGEN, a generator for hard multiparton processes in hadronic collisions, M.L. Mangano, M. Moretti, F. Piccinini, R. Pittau, A. Polosa, JHEP 0307:001,2003, hep-ph/0206293.
- Multijet matrix elements and shower evolution in hadronic collisions: W B Bbar + N jets as a case study, M.L. Mangano, M. Moretti, R. Pittau, Nucl.Phys.B632:343-362,2002; hep-ph/0108069
- A new approach to multijet calculations in hadron collisions, F. Caravaglios, M. L. Mangano, M. Moretti, R. Pittau, Nucl.Phys.B539:215-232,1999; hep-ph/9807570

Additional info

- Some frequently asked questions are answered here: AlpgenFAQ
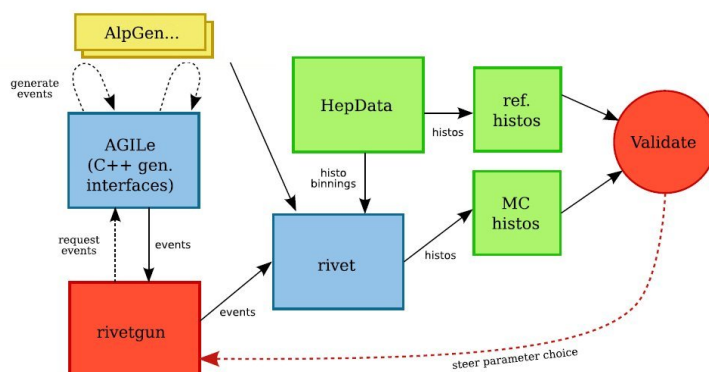- The ATLAS W+Jets production tutorial with discussion of systematic error

Experiment Specific Pages

- The ATLAS specific page is here
- The CMS specific page is here: CmsAlpgen
- The CDF specific page is here
- The D0 specific page is here

AlpGen Specific Pages for theoretical tools

For a general overview of tuning and validation tools, please refer to this note.

- The RivetGun interface to Rivet for AlpGen can be found here.

- The Professor⧉ page for AlpGen ......

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