Rivet monthly dev meeting

4 March 2019

Discussion topics

- **News, releases etc.**

    - **2.7.0 released! 👍 Options and first HI tools are now public**

        - Just in time for "Rivet for ep physics" DESY workshop, 18-20 Feb

        - Validation by Leif; all data and scripts available at
          https://cernbox.cern.ch/index.php/s/6QD1dvXFt1FJ7Dy

        - Used in tutorial and hacking sessions, good reception from HERA and EIC

        - Coverage page also now includes more non-LHC expts and more headings

        - ep mailing list to come; 5-10 people working on key analyses;
          discussion on observable refinements, Leif has prototyped some

    - **3.0.0 release:** work to finally happen in earnest this week:
      Chris G visiting Andy in Glasgow to apply pressure ;-)

    - **Code-hosting plan:** move main repo to Bitbucket?

Discussion topics

- **Developments for 2.7.1**

  - Beam energy: comparison rationalisation, and EnergyPerNucleon for HI

  - Merge James Monk's HepMC 3.1 branch

  - Also remove Particle -> GenParticle*

  - Report that a projection cast via uint is sometimes necessary: to be checked

  - Full Py3? Patches from Leif Gellersen incorporated; Unicode in mkhtml remains

- **For later:**

  - Adding trimmers/soft-drop/etc. as built-in FastJets features:
    could be done inefficiently now (invalidates cache comparison),
    requires FJ virtual Transformer::operator== to do it properly.

  - ???

Discussion topics

- **Releases:**

  - **3.0.0:** asap. Work NOW to understand/fix validation inconsistencies. Maybe AB setup?!

  - **HepData consistency/sync:** Holger & Christian?

- **Papers:**

  - v3/multiweight: requires release, Jon coordinating — underway

  - smearing: Andy + Deepak Kar & Karl Nordstrom — underway

  - heavy ion: after 2.7.0 release… when? Christian B?

- **Workshops:**

  - **Lunga dev workshop, 27-30 May:** SM, Heavy Ion, and BSM interpretation all welcome

  - **Les Houches SM and BSM, June 10-28 June:** DEADLINE 5 MARCH (TOMORROW!)