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HEPData feedback from ATLAS/SUSY

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HEPdata usage at ATLAS



- Mike and I are the ATLAS SUSY hepdata contacts, one of the editors for each paper contacts us, we create, review, and publish the record.
- About 75 ATLAS SUSY hepdata records for run 1 papers, 13 TeV starting to appear (only one entry so far).
- SUSY records tend to be large, sometimes $O(100)$ tables.
 - Example: 8 TeV stop search (1-lepton channel), 131 tables.
- A few recent examples of ATLAS SUSY papers in HEPdata:
 - Run 1 pMSSM summary
 - Electroweak production of SUSY particles (8 TeV)
 - Large jet multiplicities search (13 TeV)

Feedback / wishlist: accounts



- Mike and I share an admin account; it is in our responsibility to avoid duplicating work / interfering with each other.
 - Multiple admin accounts for one domain?
 - Protections against creating two records for a paper, concurrent edits, ...?
- We need to switch between admin and user roles to have access to the input form, and to correct mistakes (even requires changing the "ready" flag, which triggers spurious emails).
 - Admins should have direct access to the records they created (with some warning/protection for concurrent edits).
- Creating a record is easy, once the Inspire ID is known.
 - Preliminary records, optionally assign ID later?

Feedback / wishlist: (no) external files



- Uploading additional material:
pMSSM paper has no tables, instead it uses a free-form header with references and links to SLHA files etc. hosted on a different server.
 - Not sure if it makes sense to define a separate type of hepdata record for meta-analyses.
 - Would be good to have a common location for external files that is guaranteed to be maintained just as hepdata.
 - With a modern interface to upload and manage files.
- Uploading figures still a bit cumbersome at the moment (but greatly facilitated by a script that extracts figures from CDS).

- There should be one complete and up-to-date reference documentation, specifying in particular the input format, with style guidelines and examples.
- Ideally, the user interface should automatically correct the input, or give suggestions.
- Applies to mostly table headers (capitalisation, spelling, abbreviations):
 - GeV or GEV; fb-1 or fb $^{-1}$ (i.e. consistent use of MathJax).
 - M(CHARGINO) or m(char) or $m(\chi_{\pm 1})$
- ... but also to reaction and observable keywords.
 - P P \rightarrow SQ/GL
 - Possibly also to the wording used for captions.

Clear URLs



- The current hepdata interface uses URLs that are actually not "resource locators", but are state-dependent:
- <http://hepdata.cedar.ac.uk/view/ins1304456/prev> (or /next).
 - Try reloading such a page...
- It would be more reasonable and practical to be able to use addresses like *...?from=1&to=20* or *...?view=all*

Version control system



- Intermediate revisions (during record preparation) should be stored and easily accessible.
- Not sure about published versions.
 - Should not change often, typically only in case of errors or if further material is added.

Editing individual tables



- For large records, even small changes to single could mean a considerable effort, given that the server was often overwhelmed or unavailable.
- Also, the server would sometimes refuse an entire record if there was a severe parsing error in one table.
- Ideally, the new interface would optionally allow to edit only one table.
 - Perhaps even with a real time preview?

- Great to have this workshop today!
- Create a hepdata contact mailing list to stay in touch and discuss more frequently?
- Exchange with theorists is very important:
 - Not always clear which data is most interesting for theory.
 - Have occasionally noticed lack of awareness of what's available on hepdata.