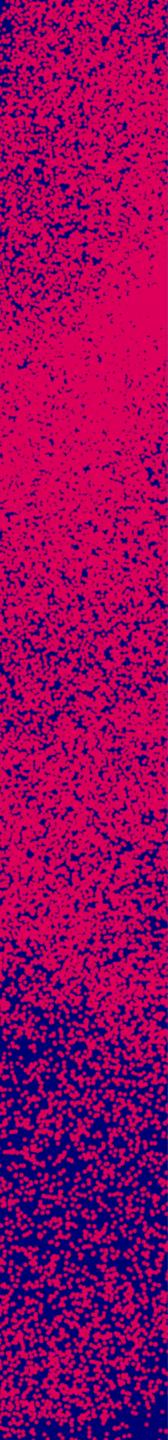




# CMS feedback and hepdata\_lib

Clemens Lange (Paul Scherrer Institute PSI) HEPData users' meeting, 15<sup>th</sup> January 2025



## **CMS** overview

Creating a HEPData record is mandatory for each CMS analysis

- > This policy became effective at the end of 2020
- > Dedicated HEPData contacts iterate with the analysts, the publication committee triggers the process
- > The DOI of the record needs to be added to the manuscript before submission to arXiv
- What changed?
- >Andreas Albert and I managed to convince the collaboration that "HEPData is easy"
- >We developed <u>hepdata\_lib</u> with documentation and examples and trained others on using it

However, creating a HEPData record can still be made easier

Recently, CMS has started to release full statistical models, now linked from HEPData

> Model files can be too big for HEPData





### **Effort required to create a HEPData record**

Based on a small survey (8 responses) and some personal discussions: > Most analysts can create a record within a single full working day >Some people, however, require several days (up to a week)

Issues:

- > People typically only create a record every other year if at all examples and extensive documentation are important
- > For some it is difficult to create the input for HEPData
- > Metadata, i.e. keywords, are not sufficiently standardised/unclear/too general
  - Is there any monitoring on whether visitors of the HEPData portal actually use them?
  - Physics process description probably biggest issue, a lot of "new physics" hard to describe using HEPData keywords





### Feature requests by CMS HEPData contacts

- 1. Make it possible to have several (at least 3?) uploaders for one entry, with equal rights, that can be entered both from entry creation screen and entry modification screen
- 2. The same could be also helpful for reviewers
- 3. For review, when a new record is uploaded, only mark Tables for review again if they have changed
- 4. Allow editing of record title (before it is taken from INSPIREHEP)
- Make "notify uploader and reviewer" the default action, (checked mark) with the possibility to 5. uncheck it
- 6. Make it possible to share the entry link for viewing before it is finalised (e.g. to share with ARC chair or PubComm), i.e. share with a viewer token. Currently AFAIK people use sandbox entries for that, rarely add ARC chair as an extra reviewer (or even email zip archives).
- 7. For generator fragments and code snippets, allow rendering them inline rather than having to download them





# Improving and maintaining hepdata\_lib

Andreas Albert left HEP a few years ago

- > Since then, HEPD at team (Graeme, Jordan) have provided help with maintenance and code review — thank you!
- > Thank you also to other contributors who have provided new features and fixes!
- I can only maintain the library with relatively little effort thanks to extensive tests and automation
- Few new features added overall
- > Library covers the most commonly used needs
- There are still quite a few issues/feature requests
- >See <u>https://github.com/HEPData/hepdata\_lib/issues</u>
- >This is certainly not a complete list my experience is that most users will not create GitHub issues but rather somehow make things work for them (even if it takes them much longer)
- > Any help getting those open items addressed would be highly appreciated!





