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Forum on the Interpretation of the LHC Results for BSM studies

The quest for new physics beyond the Standard Model is arguably the driving topic for Run 2 of the LHC. Indeed, the LHC collaborations are pursuing searches for new physics in a vast variety of channels. While the collaborations typically provide themselves interpretations of their results, for instance in terms of simplified models, the full understanding of the implications of these searches requires the interpretation of the experimental results in the context of all kinds of theoretical models. This is a very active field, with close theory-experiment interaction and with several public tools being developed.

With this forum, we want to provide a platform for continued discussion of topics related to the BSM (re)interpretation of LHC data, including the development of the necessary public RecastingTools and related infrastructure.

If you have questions or want to contribute, contact Sabine Kraml, sabine.kraml@gmail.com, or the whole steering group via info-LHC-interpretation-organisers@cern.ch.

Mailing list

- CERN e-group: info-LHC-interpretation@cern.ch
- To subscribe, go to https://simba3.web.cern.ch/simba3/SelfSubscription.aspx?groupName=info-lhc-interpretation

Reports, resources, etc

- White paper on Publishing statistical models: Getting the most out of particle physics experiments: arXiv:2109.04981 (Sep 9, 2021)
- Our Forum’s report Reinterpretation of LHC Results for New Physics: Status and recommendations after Run 2 has been published in SciPost Phys. 9, 022 (2020)
- We strongly encourage authors of phenomenological studies to publish their codes and/or data products in digital form via the Zenodo community on (Re)interpretation of LHC results for BSM studies

Meetings

RAMP seminars

RAMP stands for "Reinterpretation: Auxiliary Material Presentation". It is a new series of short meetings throughout the year, where young experimentalists present the material for their analyses in a ~15-20 min talk, followed by a discussion with potential (re)users. The aim is to create more direct experiment-theory interaction, and to give more visibility and recognition to the effort of preparing and providing extensive material for reinterpretation. The kick off is on 9 April 2021, see here for the schedule

Workshops of this forum (all meetings)

- 6th workshop, 15-19 Feb 2021 on Zoom (online only)
- 5th workshop, 2-4 April 2019 at Imperial College (registration via the IOP workshop webpage)
- 4th workshop, 14-16 May 2018 at CERN
- 3rd workshop, 16-18 Oct 2017 at Fermilab
**2nd workshop**, 12-14 Dec 2016 at CERN
- Agenda | introduction | final discussion | WorkshopSummaryNotes

**Kick-off workshop**: (Re)interpreting the results of new physics searches at the LHC, 15-17 June 2016 at CERN
- Agenda | general discussion | KickoffSummaryNotes

**Other workshops and meetings, potentially interesting for our forum**
- Forthcoming LPCC events

**News**

[2021-09-13] our white paper on "Publishing statistical models" appears as arXiv:2109.04981

[2021-04-09] "Reinterpretation: Auxiliary Material Presentation" (RAMP) kick-off meeting

**OlderNews**

**Steering group**

The steering group comprises a representative of each of the public recasting tools as well as a couple of individual LHC physicists. Current members are:


Mailing list: : info-LHC-interpretation-organisers@cernNOSPAMPLEASE.ch

Many thanks to previous members: Suchita Kulkarni, Jamie Tattersall

**Topics, ongoing and proposed efforts**

see ListofTopics and better SciPost Phys. 9, 022 (2020)

**Examples of recast studies**

- This list of recent RecastingStudies may serve as a feedback to the experiments about the use of their results and the information they provide.

- 'Best practice' guide: we remind all colleagues doing recasts that they, too, should provide their codes and supplementary info to the community/experiments (via HEPData where appropriate, or via our Zenodo community), to make it easier for others to repeat and/or re-use their results.

**Documents**

- Wish list from phenomenologists: material needed for implementing and validating LHC new physics searches in fast simulation tools, recast-wishlist-2014.pdf (30 Sep 2014)
InterpretingLHCResults < LHCPhysics < TWiki

- Reinterpretation of LHC Results for New Physics: Status and recommendations after Run 2, SciPost Phys. 9, 022 (2020)

**Links**

**Other initiatives or working groups**

- LHCPhysics Web (hosts twiki pages of several groups)
- Dark Matter Working Group
- LHC Long Lived Particle Miniworkshop, 12 May 2016

**Related previous workshops**

- Mini-workshop on recasting ATLAS and CMS new physics searches, 8-12 September 2014
- Coordinating a simplified models effort, 29-30 October 2013
- Likelihoods for the LHC Searches, 21-23 January 2013
- Searches for new physics: recommendations for the presentation of LHC results, 13 February 2012
- Global BSM fits and LHC data, 10-11 February 2011

-- SabineKraml - 2021-09-13