

























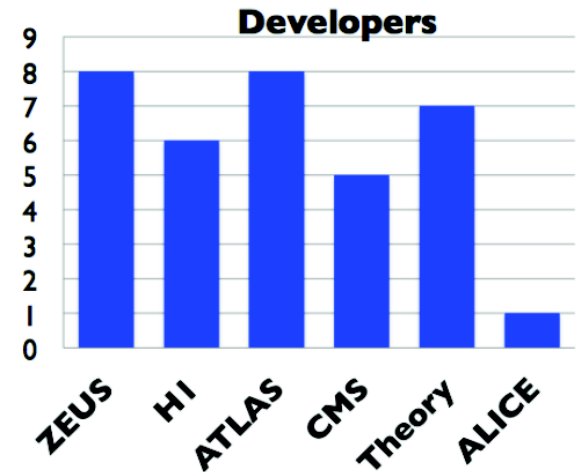
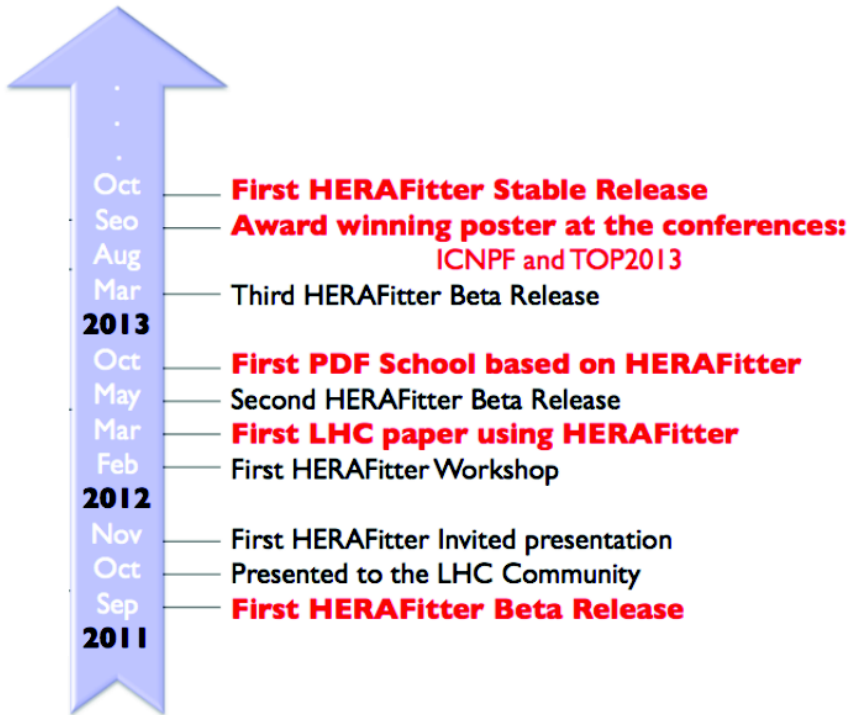


Conferences:

<https://www.herafitter.org/HERAFitter/HERAFitter/HERAFitterTalks>

Date	Conference/Workshop	Presenter	Link	Remarks
14-15.11.2013	 QCD tools for LHC	R. Placakyte	talk on quark PDFs (LHC)	HERAFitter slides adverts
4-8.11.2013	 HADRON2013	V. Radescu	dedicated talk	beta3.1/stable release
15-20.09.2013	 ISMD	P. Starovoitov/K.Wichmann	dedicated poster	beta3.1 release
19-21.09.2013	 ATLAS SM workshop	V. Radescu	poster:  pdf  pptx	beta3.1 release
 14-19.09.2013	 TOP2013	S. Camarda	dedicated poster	beta3.1 release
2-6.09.2013	 QCD@LHC	R. Sadykov	 dedicated talk	beta3.1 release
 28.08-5.09.2013	 ICNFP	R. Placakyte	 poster.pdf	beta3.1 release
18.07.2013	 EPS2013	A. Sapronov	 dedicated talk	beta3.1 release
30.06.2013	 Hadron Structure 2013	A. Gizhko	 talk.pdf	beta3.1 release
30.05.2013	 Low X	V. Radescu	 dedicated talk	beta3 release
22.05.2013	 Photon2013	K. Wichmann, V. Chekelian	talk on HERA physics	HERAFitter slides adverts
16.05.2013	 LHCP	H. Pirumov	 dedicated poster	First Poster
23.04.2013	 DIS	R. Placakyte	 dedicated talk	beta3 release
17.04.2013	 PDF4LHC	V. Radescu	 dedicated talk	beta3 release

+ PRC DESY next week (24-25 October): talks in open and closed sessions



→ first stable release in couple of weeks: new functionality and a publication

News:

→ plan to enlarge HERAFitter developer team (Applgrid, NNPDF, LHCb)

Code frozen (no new developments)

- all missing pieces for stable release have been added
- final tuning and clean up is ongoing
- requires extensive testing (started)

HERAFitter-1.0.0 release: in few weeks

- requires updates to documentation (README, manual, release notes)

Short paper planned together with the stable release (EPJC)

- currently: first iteration with Steering Group

Added developments to the stable release:

- restructuring of the code, improved naming for modules
- updated comments, Doxygen
- significantly improved drawing tools → Stefan's talk
- calculation of theory errors in chi2 for PDFs (LHAPDF)
- improvements in the parametrisation style (more generic naming)
- generic tool for global minima solution → Stas talk
- updated uPDF code (with evolution on the fly)
- new user friendly interface to APPLGRIDs with math operations enabled
- parallelising of the code with OpenMP (RT scheme)
- more options for chi2 code available
- tool to transform cov matrix to nuisance parameter representation
- lead PDFs

Several fixes implemented

RT LO enabled, fix of replicas in Reweighting code, fixes to the chi2 code

The feedback from Users is very welcome on:

Technical aspects:

- did you have problems to install HERAFitter (gcc version, root, Cern lib dependencies?)
- experience on different platforms (SL5/6, lxplus, MAC, linux..)

Documentation:

- improvements required for README, manual?
- usage of Doxygen
- more/different examples for fitting? drawing options?

More suggestions/comments for further (web page, meetings, ...) improvements?

longer term:

- QED+QCD PDFs (generalised evolution in QCDNUM)
- ttbar differential cross sections
- Top++ (total top pair production)
- ACOT NNLO
- ACOT in QCDNUM
- intrinsic charm
- OpenMP (ACOT, ..)
- APPLGRID interfaces to DYNNLO
- LHAPDF in C++
- fitting photon PDFs
- different evolution codes, ...

Today's agenda:

Wednesday, 16 October 2013

- 16:00 - 16:20 Status 20'
Speakers: Voica Ana Maria Radescu (Deutsches Elektronen-Synchrotron (DE)), Ringaile Placakyte (Deutsches Elektronen-Synchrotron (DE))
- 16:20 - 16:50 Report from Developers: 30'
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- Genetic tool for global minimisation 15'
Speaker: Stanislav Shushkevich (Deutsches Elektronen-Synchrotron (DE))
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- Updates to drawing tools 15'
Speaker: Stefano Camarda (Deutsches Elektronen-Synchrotron (DE))
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- 16:50 - 17:10 QED effects in NNPDF and the APFEL PDF evolution library 20'
Speakers: Juan Rojo Chacon (CERN), Stefano Carrazza (Università degli Studi e INFN Milano (IT)), Valerio Bertone (CERN)
- 17:10 - 17:30 An update on lead PDFs 20'
Speakers: Dr. Aleksander Kusina (Southern Methodist University), Prof. Fred Olness (Southern Methodist University)
- 17:30 - 17:50 Discussions with Users 20'

Next User's meeting in November

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