

# HERAFitter: Releases and Updates

August 1, 2012

HERAFitter versions are labeled as **herafitter-i.j.k** where **i** is the stable release number, **j** is beta release number, and **k** is bug fixes.

Release	Date	Description
herafitter-0.2.1	13.07.2012	<ul style="list-style-type: none"><li>• Fixing the RT Fast scheme: the k-factors were determined for single point instead for each data point which is now fixed.</li></ul>
herafitter-0.2.0	9.05.2012	<ul style="list-style-type: none"><li>• New implementation of RT scheme (VFNS): Standard and Optimal NLO and NNLO.</li><li>• New module for heavy flavour treatment using VFNS ACOT scheme using k-factor technique. Different variants of ACOT scheme available, as well as ZM-VFNS.</li><li>• New module for heavy flavour treatment using FFNS ABM scheme.</li><li>• New module for DIPOLE models (GBW, IIM).</li><li>• New Hathor module for <math>t\bar{t}</math> cross section calculation - optional via configure flag.</li><li>• New Diffractive module for fits to diffractive data.</li><li>• New data sets from HERA, Fixed target experiments, Tevatron and LHC.</li> <li>• New interface to LHAPDF to access external PDFs for prediction estimation - optional via configure flag.</li> <li>• New module for NNPDF reweighting tool - optional via configure flag.</li><li>• New addition for error handling providing a summary of errors.</li><li>• Improved interface to FASTNLO module via FASTNLOREADER.</li><li>• Improved interfaces between QCDNUM and cross-section calculation codes. PDF caching mechanisms for faster computations.</li><li>• Improved modularity of the structure by separating the chisquare definition from minimisation routine.</li><li>• New common interfaces to access PDFs and alphas, in interface/src .</li><li>• Improved handling of PDF parametrisation, in src/pdf_param.f .</li><li>• Centralised passing of the constants to EW module via ewparam.txt card.</li> <li>• New implementation for scale variation for APPLGRID and FASTNLO via steering.txt card</li></ul>
herafitter-0.1.0	15.09.2011	<ul style="list-style-type: none"><li>• Initial release</li></ul>