

6 March 2013
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see also <http://zfitter.com>

A new Erratum for EPJC60(2009)543, replacing EPJC71(2011)1718, is of utmost importance and is urgent.

A new, correct erratum would resolve on sliding the problems around the EPJC Editors-in-Chief report, http://zfitter.com/Letter_Riemann.pdf, which violates the rules for treating hints on scientific misconduct when publishing in a Springer Journal.

The new, correct erratum might have the following contents:

The numerical results of the article EPJC60(2009)543 have been produced with Gfitter. The Standard Model library Gfitter/GSM is authored by M. Goebel, J. Haller, A. Hoecker and K. Moenig. It has been created by translating parts of the Standard Model library of the Fortran package ZFITTER v.6.42 [refA, refB] into C++.

Additional features of Gfitter/GSM are: <list, references>.

The bulk of one-loop formulas in Appendices A.3 and A.4 of EPJC60(2009)543 has been taken over without substantial changes from [refA,refC].

(Alternative text version: <explicit list of formulas with references>)

We regret that we did not refer correctly to the original sources of software and text thereby making the impression that they were our own invention. We understand that Gfitter/GSM will stay proprietary in fulfillment of the CPC licence of ZFITTER.

RefA

D. Bardin, P. Christova , M. Jack, L. Kalinovskaya, A. Olchevski, S. Riemann, T. Riemann, "ZFITTER v.6.21: A Semianalytical program for fermion pair production in e+ e- annihilation", Comput. Phys. Commun. 133 (2001) 229-395

RefB

A. Arbuzov, M. Awramik, M. Czakon, A. Freitas, M. Grunewald, Klaus Monig, S. Riemann, T. Riemann, "ZFITTER: A Semi-analytical program for fermion pair production in e+ e- annihilation, from version 6.21 to version 6.42", Comput. Phys. Commun. 174 (2006) 728-758

refC

D. Bardin, L. Kalinovskaya, S. Riemann, T. Riemann, <http://arxiv.org/abs/9709229v1> (1995), section 4.4 „ZFITTER basics“.

Compare:

Reference to the software package TMINUIT in the diploma thesis of M. Goebel:

[49] F. James and M. Roos, Minuit: A System for Function Minimization and Analysis of the Parameter Errors and Correlations, Comput. Phys. Commun. 10, 343 (1975), Translation into TMinuit integrated into ROOT by R. Brun.