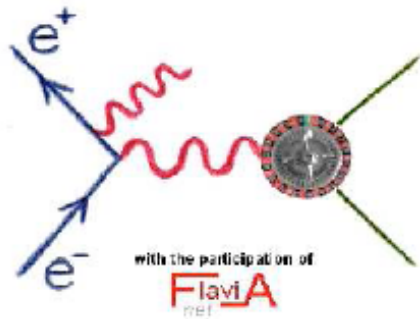


Working Group on Rad. Corrections and MC Generators for Low Energies



6th meeting of the WG Radio MonteCarLow

H. Czyz, G. Venanzoni

Beijing, 17 Oct 2009

<http://www.Inf.infn.it/wg/sighad/>

Goals of the WG Meeting

- Status of the EPJC Report
- Plans for the future

The report

- Provide a reference for the experimentalists/theorists working on this field
- Provisionary titles (vote for one):
 - **“Quest for precision in hadronic physics at low energy: MC tools vs experimental data”**
 - **“Quest for precision in hadronic cross sections at low energy: MC tools vs experimental data”**
- ~100 pages EPJC, 5 sections:
 - Luminosity, R scan, ISR, Tau, VP
- Deadline (EPJC): End of November (see later)

Quest for precision in hadronic physics at low energies: Monte Carlo tools vs. experimental data*

First author¹ and Second author^{2a}

¹ Insert the first address here

² the second here

Received: date / Revised version: date

Abstract. Insert your abstract here.

PACS. PACS-key describing text of that key – PACS-key describing text of that key

1 Introduction

introduction [1]

2 Luminosity

luminosity [2]

3 Scan

scan

4 Radiative return

radiative return

5 Vacuum polarization

vacuum polarization

6 Tau physics

tau physics

References

1. C. Amser et al. (Particle Data Group), Phys. Lett. B667, 1 (2008)
2. G. Balossini, C.M. Carloni Calame, G. Montagna, O. Nicrosini, F. Piccinini, Nucl. Phys. Proc. Suppl. 162, 59 (2006), [hep-ph/0610022](#)

Work organisation (I)

5 sections:

- “R measurement with direct scan”: A.Arbusov, G. Fedotovich
- “R measurement with ISR”: H. Czyz, S. Mueller
- “Luminosity”: G. Montagna, F. Nguyen
- “Tau”: Z. Was, S. Eidelman
- “VP”: D. Nomura, T. Teubner

Uploading procedure for documents
(www.Inf.infn.it/wg/sighad/private).

Schedule for the report

- Oct 26: conveners should send H a summary (1/2 column) of their section
- Oct 28: conveners will send H+G their final version of the section
- Nov 4: H+G will release the report to everybody for reading (1 week deadline for sending final corrections/comments). We will upload the document and send the password to all authors
- Nov 11: H+G will receive the corrections and work on that.
- Nov 18: H+G will send the report to Thomas for final reading (1week)
- End of November: the report should be ready and submitted to EPJC and archive

- Additional requests for conveners:

- Send us (H+G) emails of contributors (by the end of this week!)

- Check carefully references, equations, etc...

- Check carefully names and affiliations of contributors.

- Don't refer to colour (only) in figures, since the report will be published BW

- Check if to put acknowledgement when using figures from previous publications

- Ask contributors for preprint numbers

- Use web procedure to upload your files**

www.Inf.infn.it/wg/sighad/private

WG: what we have done...

- WG RadioMotecarLow: started 3 years ago
- 6 meetings (Frascati 4 times+Beijing 2 times)
- ~60 participants, 25 institutes, 13 countries
- 5 subjects (Lumi, R-scan, ISR, Tau, VP)
- Lively discussion and new results
- Working Group Report
- No official dedicated financial support for this activity

So quite successful!!!

However not every activity was completed, and some comparisons btw generators are still missing

People involved

Aachen: Actis, Czakon
Beijing: Shen, Wang, Yuan, Zhang
Berlin: Jegerlehner
Bologna: Caffo, Remiddi
CERN: Beltrame, Mastrolia
Cracov: Grzelińska, Jadach, Przedzinski, Wąs
Dubna: Arbuzov, Kuraev
Edmonton: Penin
Frascati: Isidori, Pacetti, Pancheri, Shekhovtsova, Venanzoni
Freiburg: van der Bij
Karlsruhe: Kluge, Kühn,
Katowice: Czyż, Gluza, Kołodziej
Kharkov: Korchin
Mainz: Denig, Ferroglia, Hafner, Mueller
Moscow: Pakhlova
Novosibirsk: Cherepanov, Eidelman, Fedotovich, Sibidanov, Solodov
Palaiseau: Kalinowski
Padova: Passera
Parma: Trentadue
Pavia: Montagna, Nicrosini, Piccinini
Rome: Baldini, Bini, Greco, Nguyen
Southampton: Carloni-Calame
Valencia: Rodrigo, Roig
Wuppertal: Wosiek

How to proceed

- Should we continue?
 - The experimental activity will continue!
 - The theoretical activity will continue(?)
 - Some activities (tuning comparison of generators) has started, but not yet finished
- Should we include/exclude some subjects?
- Should we ask for formal funding? And how/where?
- Should we change the conveners (G+H)?

Many thanks to the organizing
committee, particularly to
Changzheng and Ping!

And of course if we will continue, we
should come again to China!