# 11th meeting of the WG Radio Monte CarLow

H.Czyz/G. Venanzoni



Frascati 16 April 2012

#### 14:30->15:00 Introduction H. Czyz/G. Venanzoni

#### 15:00->16:30 Radiative Corrections and MC generators

- 15:00 Current status of the luminosity measurement with CMD-3 detector at VEPP-2000 e+e- collider (30)

  Gennady V. Fedotovich (BINP)
- 15:30 Result on ISR at BES-III (20') Achim Denig (Karlsruhe / Mainz)
- 15:50 Complete one loop corrections to e+e- -> mu+mu- gamma Michal GUNIA in PHOKHARA generator (20)

16:30 Coffee Break (15')

#### 17:00->18:30 Hadronic VP, g-2 and Delta alpha

- 17:00 An improved evaluation of the running sin^2 Fred Jegerlehner (DESY Zeuthen)

  Theta eff and some applications (20)
- 17:20 VP: status and discussion (20) Thomas Teubner (*University of Liverpool*)
- 17:40 Results and issues on amu^HLO (20) Simon Eidelman (Budker Institute of Nuclear Physics), Thomas Teubner (University of Liverpool)
- 18:00 Discussion on amu^HLO (20)

#### Tuesday 17 April 2012

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## 09:00->11:00 Gamma Gamma physics, FSR and Transition Form Factors

09:00	Results on gg physics with KLOE (20)	Federico Nguyen (Univers	sita' degli Studi Roma TRE and Sezione INFN Roma TRE)
09:20	Measurement of gg to pi0 with KLOE-2 (20')		Danilo Babusci ( <i>LNF</i> )
09:40	gamma-gamma physics (single tag measurements) at BES-III (20)		Achim Denig ( <i>Karlsruhe /</i> <i>Mainz</i> )
10:00			rgiy IVASHYN ( <i>KIPT Kharkov</i> ) , ryk CZYZ ( <i>University of Silesia</i> )
10:20	The V P gamma* form factor parametrizations (20')		20') Sergiy IVASHYN
10:40	pi0/eta formfactors (20')	Andı	rzej Kupsc ( <i>Uppsala University</i> )
11:00	Cof	fee Break (30')	
11:30-> <i>12:10</i> Tau			
11:30	TAUOLA, version 2011: update of two and three pseudoscalar modes in RChT (20)		e Olga Shekhovstova (LNF)
11:50	Theoretical basis of the new in TAUOLA and discussion o (20)		UAB. Barcelona)
12:10 Discussion on FP7 (20')			Antonio Passeri ( <i>ROMA3</i> )

# At 8.00 pm we will have the dinner at Ristorante of "Villa Mercede"

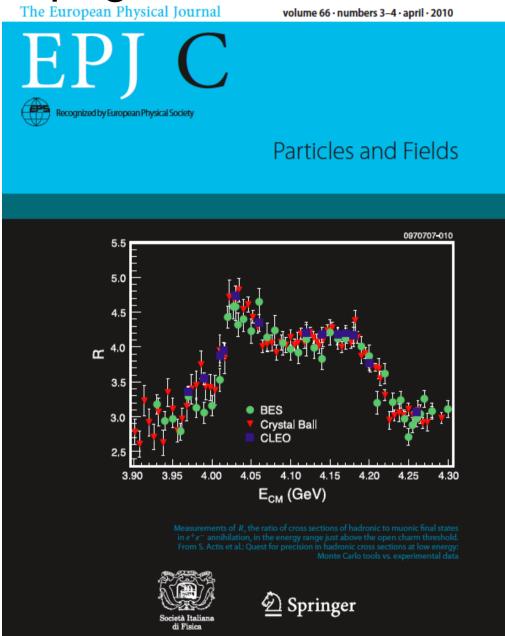
Partly supported by MesonNet

Thanks Andrzej!!!

### Usual propaganda:

The paper "Quest for precision in hadronic cross sections at low energy:
Monte Carlo tools vs.
experimental data" has been published on the Eur.
Phys. J. C. Volume 66,
Issue 3 (2010), Page 585

Remember to quote the paper.



#### Please acknowledge the RMCWG activity!

A possible way in the acknowledgements:

"This work is a part of the activity of the "Working Group on Radiative Corrections and Monte Carlo Generators for Low Energies" [http://www.lnf.infn.it/wg/ sighad/]."

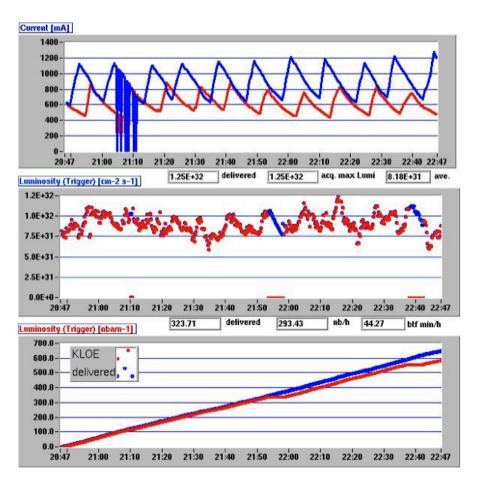
This has been already done in few papers.

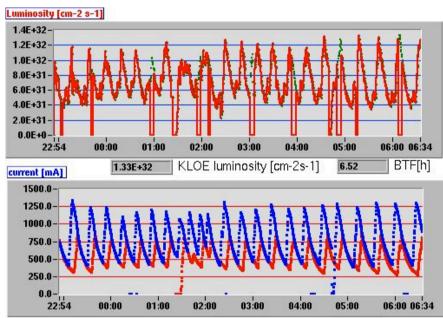
Can we have a database of the papers done within the WG activities? Please send me the reference of your paper(s)

#### e+e- current activities

- First of all congratulations to our Russian colleagues for the very promising results from VEPP-2000!
- Dafne luminosity and running time is slowing improving reaching the performances of previous run (Lmax~1.3 x10<sup>32</sup>). the detector is ready and all of us expect to start smooth data taking soon!
- BESIII is proceeding very well with plenty of new data. Soon the γγ and ISR programs will become an important part if its activities. See Achim presentations
- Still KLOE, BaBar and Belle can give important results on hadronic cross sections, γγ, and flavour physics.

#### Dafne best day





#### March 29th 2012

$$L_{peak} = 1.3 \ 10^{32} \ cm^{-2} s^{-1}$$

$$L_{f1 hour} = 0.324 pb^{-1}$$

#### Some issues

- Is the 3 sigma discrepancy on g-2 btw SM and Exp. real? Are data and theory under control? Are there some new (crazy) ideas? (As WG) can we contribute on that? Simon/Thomas will chair the discussion at the end of today meeting.
- Set of precise data (hadronic cross section or  $\gamma\gamma$ ) not always in good agreement (see next slides).
- Exclusive vs inclusive data (between 1 and 2.5 GeV)

These discrepancies can become a limiting factor for a real progress on  $a_{\mu}^{SM}$ 

In both cases experimental and theoretical activities are essential!

Still a lot of work for our WG!

# How to improve the critical mass: can we access to European funds (especially for positions)?

We will discuss on Tuesday morning

# When and where the next meeting?

Usually in September-October as satellite of a conference...

This time... Tau 2012

Nagoya, Japan, 17-21

September, 2012

Would be feasible?
How many of us will go there?

Other possibilities?

## ...A possibility...

 In Sept/October (or November) in Messina (south Italy)...



### Have a nice meeting!