

The timetable (today)

	Public Seminar. Entangled baryon-antibaryon in J/ψ decays	Alessio Mangoni
15:00		
		14:30 - 15:30

	CIF intro	Francesca De Mori
		17:20 - 17:40
	Isovector and isoscalar components of the nucleons cross section	Giulio Mezzadri
		17:40 - 18:00
18:00	Update of psi(2S)-> tau tau	Isabella Garzia
		18:00 - 18:20
	Inclusive Measurement of hc(1P1) in psi(2S) decay	Marco Scodeggio
		18:20 - 18:40
	discussion	
		18:40 - 19:00

19:00

The timetable (tomorrow)

	1,14	44.00 44.00
		11:00 - 11:20
Phase measurement in psi(2S)->ppbar		Marco Destefanis et al.
		11:20 - 11:40
Phase in Psi'->pipijpsi		Giulio Mezzadri
		11:40 - 12:00
Selections optimization for j/psi->K+K- via psi(2S)->pi+pi-j/psi		Mr Lopresti Edoardo
		12:00 - 12:20
Update on j/psi->K+K- via psi(2S)->pi+pi-j/psi without PID		Francesca De Mori
		12:20 - 12:40
discussion		
		12:40 - 13:00

12.00

12:00

What is missing?

1. My contribution on $J/\psi \to K^+K^-$ via ψ (25) $\to \pi^+\pi^- J/\psi$ w/o PID

My plan

- ♥ I am working on normalized visible energy (evis) fit.

 ♥ Problems with the dimuon component fitting,
- Next weeks I will try to use the official Inclusive MC selecting di-muon with MCTruth and use it in spite of exclusive MC to model Mcshape.
- Evis fitting is good on signal component.
- Dimuon shows an asymmetric shape. CrystalBall doesn't work better.
- Systematics largely improved.
- Then I can go again to P&S and afterwards to RC

What is missing?

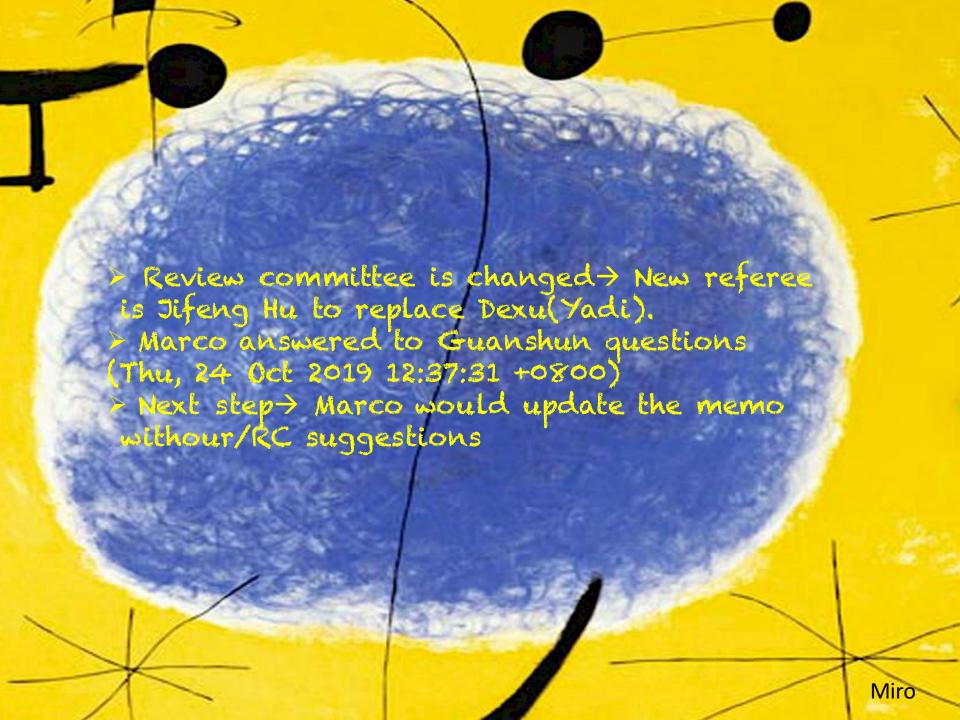
1. My contribution $J/\psi \to K^+K^-$ via ψ (25) $\to \pi^+\pi^-J/\psi$ w/o PID

2. Pentaquark searches in $\Lambda_c \rightarrow p \phi \pi^0$ (Giulio)



What is missing?

- 1. My contribution on $J/\psi \to K^+K^-$ via ψ (25) $\to \pi^+\pi^- J/\psi$ w/o PID
- 2. Pentaquark searches in $\Lambda_c \rightarrow p \phi \pi^0$ (Giulio)
- 3. J/4->pp (Marco)



I found the luminosity values you used are not final. For 2012 data, please check Chinese Physics C Vol. 41, No. 6 (2017) 063001. For 2015 data, you may refer http://docbes3.ihep.ac.cn/cqi-bin/DocDB/ShowDocument?docid=653

The values used for the 2012 data are the ones of 2015, which differ at most by 0.001 pb^-1. For the 2015 data, there is a bit more difference and the systematic errors are now included. Concerning the table, I simply forgot to update it with the correct values.

The only value which is different from the published ones is the one at the 3085.60 MeV nominal energy. In this case, we followed the suggestion from the Data Quality Group and we used only one set of 2012 data. For this reason, we kept the value we received from Bingxin.

For MC generator, you use the modified Babayaga with help from the original authors. This is fine, however, did you try more general ways, just to use ConExc or Phokhara directly, like USTC/HIM's analysis of proton form factors? http://indico.ihep.ac.cn/event/7034/session/15/contribution/64/material/slides/1.pdf

When trying to use ConExc, we found some discrepancy, which was reported by Yadi during a P&S Workshop.

Concerning Phokhara, I do not know if the J/psi resonance and the beam energy spread are included as well. Anyway, in this case it would be like starting the whole analysis again.

In Sec.5, the 1 GeV or 100 MeV radiation is confusing. If they are not reasonable at all, why do you show the cases in Fig.3 & 4?

This part was shown for comparison purposes. Now it is removed and the use of Babayaga is different in the updated memo version.

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Could you give the ppbar cross sections, at least at the energies in the continuum, so that they can be compared with the USTC/HIM analysis?

We checked the rates and we found that they were compatible between each other. Part of the updated memo is dedicated to this question, from line 368 to line 374.

MAYBE Marco can underline the agreement @ 3.00 GeV

For the center of mass energies, you shift the BEMS measurements by 0.562 MeV. I'm not sure how sensitive the phase is with respect to the absolute energy. As you know the BEMS was not reliable during 2012 run, why don't you use the J/psi peak as the calibration, like BAM-268 does? http://hnbes3.ihep.ac.cn/HyperNews/get/paper268.html

We exploited the work of Yadi and corrected the BEMS energies according to her findings (https://hnbes3.ihep.ac.cn/HyperNews/get/paper128.html). Starting from the BEMS measurements, she used muons to calibrate the J/psi peak and she found the cited discrepancy, which was then added to this work.

L121, the machine resolution is said about 200 keV. Where did you get the information?

To tell you the truth, you told me this value. I remember that I asked you this information. However, if you think that I should use a different value, it will not be a problem to change it.

Fig.5, the x range is too wide, so that no detail is visible near 180.

The figure was reprocessed together with the simulation output and the binning is finer (see Fig. 4 of the updated memo). If you think that it is still too wide, I will rerun the macro and update the memo accordingly.

For the background studies, most of the 8 processes have corresponding models, so I don't understand why you choose PHSP. Also, are the samples of 10^5 events large enough? What are the equivalent luminosities?

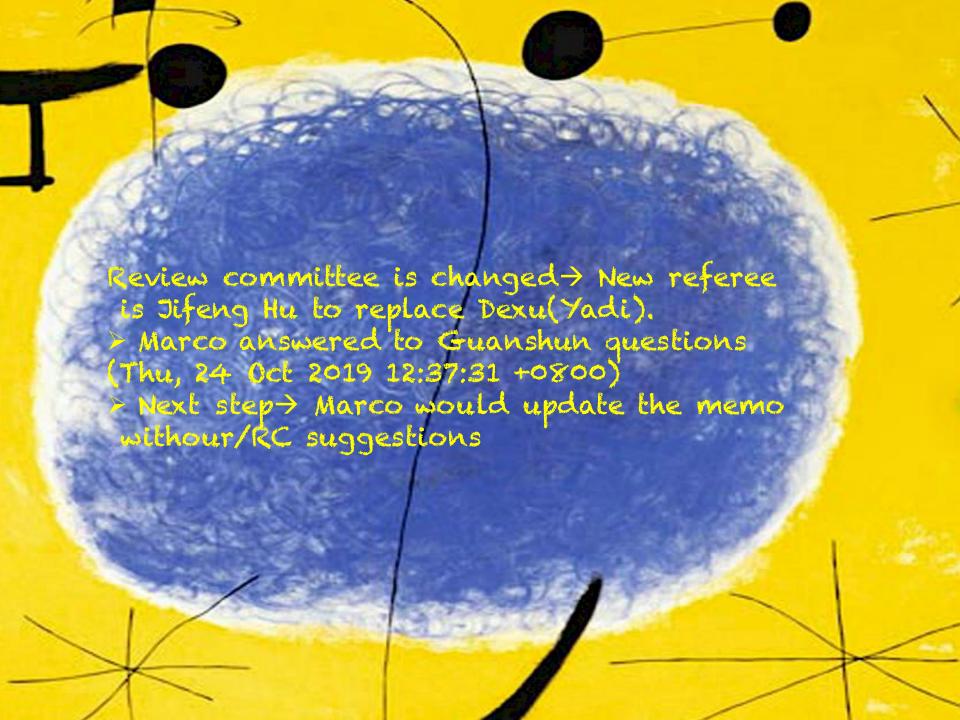
This study was performed again and the correct generators were used. In the updated memo we deliver the upper limits for each channel as well. The updated information are in Sec. 8.

p pbar gamma in Table 11, it is not clear to me if the 0.1-0.2% survived rate is of itself or of the final sample. Did you subtract it?

Now, instead of reporting the number of survived events, we report the upper limits for each channel.

Other small issues:
make clear the BR is for J/psi -> ppbar.
Quite a few cases in the text, for Luminosity, don't
need to capitalize the first letter.
L17, mu- should be mu^L91, BEMS is actually Beam Energy Measurement System.

They should be all fixed now.



NEW working group formed (stated in CM) because of the suggestion of Fabrizio. It is intendied to improve BESIII computing. Fabrizio is a member.

Evolution of BESIII computing

Areas identified by Fabrizio Bianchi where computing could be improved:

- more centralised MC production
- preselection of data: event tag, skimming
- regular review of resources, required and available

Set up a working group to discuss these topics and make recommendations:

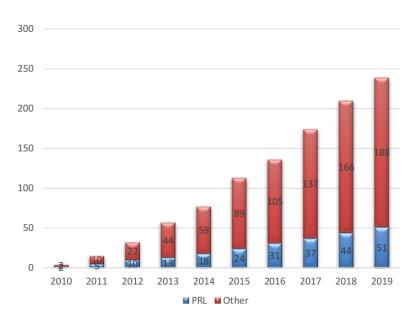
Fabrizio Bianchi, Wolfgang Gradl, Sun Shengsen, Dong Liaoyuan, Liu Beijiang, Zhang Xiaomei, Shi Jingyan

From Wolfgang closeout @IHEP Last P&S Workshop

Status of the publications

Year	PRL	PRD	PLB	EPJC	СРС	Total
2010	2	1	0	0	1	4
2011	3	8	0	0	0	11
2012	5	10	1	0	1	17
2013	3	20	0	0	2	25
2014	5	13	2	0	0	20
2015	6	24	4	0	2	36
2016	7	10	3	1	2	23
2017	6	22	7	0	3	38
2018	7	23	3	0	3	36
2019	7+	18+	1+	0+	2+	29+
Total	<mark>51</mark>	<mark>149</mark>	<mark>21</mark>	1	<mark>16</mark>	<mark>238</mark>

BESIII Physics Journal Publications



238 papers in 10 years. Roughly 30/40 papers per year since 2015

Already 99 talks assigned for 2019 (still missing PIC2019). 10% performed by italian collaborators

