

BPAG Meeting News
19/09/2017
Mario & Martino

Analysis prioritisation

- No plenary BPH talk scheduled during the Rio CMS week
- Special Physics session on Thursday October 26th from 15h to 19h to discuss the conclusions of the various PAGs
- A preview of the slides will be send to PC ~1 week before the meeting
- **Mandatory to start NOW to prepare our presentation**
- About 10 analyses to be selected according to relevance & CMS competitiveness: “realistic” extrapolation needed with the RUN2 statistics
- Spreadsheet available to help in collecting information for every candidate analysis:

https://docs.google.com/spreadsheets/d/1UK8GnIRreeShE9ySqEyQR1_p1AIDp_9CjAPFcsibYfM/edit#gid=0

Analysis prioritisation

Analyses Prioritisation ☆

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	A	B	C	D	E	F	G	H
1	Analysis Topic	BPH Subgroup	Already Performed?	Published?	Preliminary?	Timescale	Manpower	
2								
3	If already performed	Result	Main Systematics	Strategy to reduce systematics	Extrapolation @150 fb-1 (stat+syst)	Extrapolation @300 fb-1 (stat+syst)		
4								
5	If not performed yet				Extrapolation @150 fb-1 (stat+syst)	Extrapolation @300 fb-1 (stat+syst)		
6								
7	Competitors	Results	Main Systematics		Extrap. for comparison (if available)			
8								
9	CMS competitiveness							
10								

Analysis 1 Analysis 2 B -> mu mu Z0 -> J/psi X tau -> 3 mu B -> tau X

2017 Data Monitoring

- For any group planning an analysis on 2017 data is **mandatory to start looking at the trigger performance** and provide feedback asap.
- Discussion for definition of 2018 Trigger paths will start soon: **very important to have checked the 2017 performance in advance!**
- Starting from now PAGs are expected to report periodically during the PPD meetings
- Paolo Ronchese (Common Tools coordinator) selected as PPD contact
- Package developed to produce performance plots to be run periodically (see Paolo presentation today)

Statistics Committee

- SC has reshuffled their contacts for each PAG

– TOP	Olaf Behnke	Igor Volobouev
– EXO	Nick Wardle	Matthias Mozer
– BPH	Francisco Matorras	Pietro Vischia
– HIG	Andrea Marini	Nick Wardle
– B2G	Matthias Mozer	Louis Lyons
– SUS	Pietro Vischia	Olaf Behnke
– SMP	Igor Volobouev	Andrea Marini
– HIN	Emilien Chapon	
– FSQ	Louis Lyons	
– PPS	Emilien Chapon	

- They will check submitted questionnaires, acknowledge them and send comments
- Upon invitation by the PAG or subgroup conveners they can attend presentations of analyses with critical or innovative statistics issues/treatments
 - Such invitation recommended well in advance of pre-approval

Future Meetings/Events

- 22 September, 14h: Amplitude Analyses meeting
 - <https://indico.cern.ch/event/667247/>
- 24-29 September: CMS Week in Rio
 - Wednesday 27, 19:30-21:30 CEST: Physics Plenary Session I
 - Thursday 28, 14:00-17.30 CEST: Physics Plenary Session II
 - No BPH Plenary talk foreseen
 - No BPH BAG meeting
- 26 October, 15h-19h: Special Physics plenary meeting
 - Special meeting to discuss and decide the CMS physics plan for 2017 and beyond
- 18-19 December: Workshop on “Impact of $B \rightarrow \mu\mu$ on New Physics Searches”, PSI
 - Open workshop (not a CMS-only event)
 - <https://indico.cern.ch/event/655338/>

Conferences

- Complete list of upcoming Conferences in CINCO:
https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/conf_listing.aspx

- BPH Presentations with no speaker nomination:

"Charmonium cross sections at 13 TeV" at

"QWG2017: 12th International Workshop on Heavy Quarkonium, 6-10 Nov 2017, Beijing (China)"
https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/pres_display.aspx?cid=2036&pid=16239

"Electroweak production of J/ψ " at

"QWG2017: 12th International Workshop on Heavy Quarkonium, 6-10 Nov 2017, Beijing (China)"
https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/pres_display.aspx?cid=2036&pid=16242

"CMS results on charm and/or strangeness" at

"ResonanceBergamo2017: Resonance Workshop in Bergamo 2017, 10-13 Oct 2017, Bergamo (Italy)"

https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/pres_display.aspx?cid=2200&pid=16119

"Overview of exotica production at CMS" at

"EMMI2017: 2nd EMMI Workshop: Anti-matter, hyper-matter and exotica production at the LHC, 6-10 Nov 2017, Turin (Italy)"

https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/pres_display.aspx?cid=2212&pid=16186

Today's Agenda

- | | | | | |
|---|---------|---|-------|---|
| 14:00 | → 14:10 | News | 🕒 10m |  |
| Speakers: Mario Galanti (University of Rochester (US)), Martino Margoni (Universita e INFN, Padova (IT)), Sandra Malvezzi (Universita & INFN, Milano-Bicocca (IT)) | | | | |
| 14:10 | → 14:30 | Update on associated J/Psi + Jet analysis (BPH-15-003) | 🕒 20m |  |
| Speaker: James Stewart Russ (Carnegie-Mellon University (US)) | | | | |
| 14:30 | → 14:50 | Monitoring package | 🕒 20m |  |
| Speakers: Paolo Ronchese (Universita e INFN, Padova (IT)), Paolo Ronchese (Universita e INFN, Padova (IT)) | | | | |
| 14:50 | → 15:10 | BMM4 Status Report | 🕒 20m |  |
| Speakers: Chandiprasad Kar (National Institute of Science Education and Research (IN)), Kai-Feng Chen (National Taiwan University (TW)), Urs Langenegger (Paul Scherrer Institut (CH)) | | | | |
| 15:10 | → 15:30 | Trigger Status Report | 🕒 20m |  |
| Speakers: Alessio Boletti (Universita e INFN, Padova (IT)), Sergey Polikarpov (National Research Nuclear University MEPhI (RU)) | | | | |
| 15:30 | → 15:50 | MC study for the Bs->J/psi Ks Ks and B- --> J/psi Lambda p-bar | 🕒 20m |  |
| Speaker: Aliya Nigamova (National Research Nuclear University MEPhI (RU)) | | | | |