

ATLAS Standard Model Workshop 2018 5th – 7th of September 2019, London

Bogdan Malaescu, Matthias Schott on behalf of the ATLAS Standard Model Group

Goals of the Workshop

- Summarize the ongoing efforts within the SM group with a focus on bottlenecks towards full Run-2 efforts
 - Keep in mind that most (if not all) 2015/16 papers will be followed by comprehensive full Run-2 papers
- How can we get more efficient?
- How can we improve co-operations with search-groups and leveraging synergies (<= management phrase ^(C))?
- How to publish our measurements in the best possible way for theoreticians?
- Where do we need more manpower?

Bogdan Watalesso, Watthias as a group



ome Facts and Figures

- We lost the place of the group with the most papers to the Exotics group
 - but should be the leading group again in one year from now
 - We made huge progress on the 2015/16 campaign
 - We reduced the time spent in the EBphase and SM-review

• We have 380 people on SCAB!

- Lowest number since years
- We need to attract new people to cover all interesting analyses

We need your feedback (<5 replies)?</p>

How to improve the SM group?

Questions to the Theory-Panel? Bogdan Malaescu, Matthias Schott



Workshop Schedule and Organization

The workshop program is very packed

- Please stay in time with your talks, so that we have enough time for discussions
- Make use of the theory panel discussion to address more "general" questions
- Please come in time
- Last-minute changes will be announced at the beginning of the sessions and on the workshop Indico page

We have two Indico pages

One public (without slides)

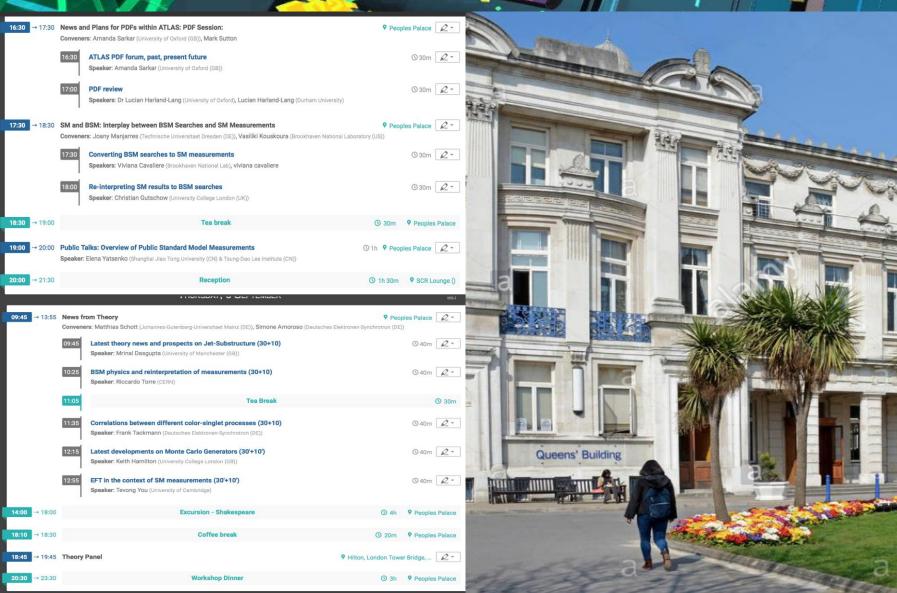
One ATLAS private (with slides)
Bogdan Malaescu, Matthias Schott



Time-Table: Wednesday (Experiment)

WEDNESDAY, 5 SEPTEMBER 10:30 → 10:45 Welcome to London ③15m ♥ Peoples Palace 10:45 → 11:45 Experimental Session 1: SoftQCD and Diffractive Physics Conveners: Rafał Staszewski (IFJ PAN Cracow (PL)), Sarka Todorova (Centre National de la Recherche Scientifique (FR)) 320m 🖉 -Diffraction studies with ALFA/AFP proton tag (15+5) Speaker: Mr James Kendrick (University of Birmingham (GB)) Electroweak studies with AFP tagging (15+5) 320m 🖉 -Speaker: Rafał Staszewski (IFJ PAN Cracow (PL)) 3 20m 🖉 -MinBias and Underlying Event studies (15+5) Speaker: Deepak Kar (University of the Witwatersrand (ZA)) **11:45** → 12:00 Tea break ③ 15m 9 Peoples Palace 12:00 → 13:00 Experimental Session 2: Jets and Photons Peoples Palace Conveners: Ben Nachman (University of California Berkeley (US)), Javier Llorente Merino (Chinese Academy of Sciences (CN)) Jets and Jet-substructure Measurements (25+5) 🛈 30m 🖉 🗸 Speaker: Jennifer Kathryn Roloff (Harvard University (US)) Testing pQCD with photons ⊙ 30m 🖉 • Speaker: Ana Rosario Cueto Gomez (Universidad Autonoma de Madrid (ES)) **13:00** → 14:00 Lunch Break () 1h Peoples Palace 14:00 → 15:00 Experimental Session 3: W,Z Physics Peoples Palace
✓ -Conveners: Fabrice Balli (Université Paris-Saclay (FR)), Valentina Cairo (The State University of New York SUNY (US)) What is published since the last SM workshop 320m 🖉 -Speaker: Evelin Meoni (Universita della Calabria e INFN (IT)) Progress report on the low-mu data-set 320m 2. Speaker: Ludovica Aperio Bella (CERN) Ongoing projects in the W.Z group @20m 2 -Speaker: Aaron James Armbruster (CERN) 15:00 -> 16:00 Experimental Session 4: Electroweak Physics Conveners: Bing Li (University of Michigan (US)), Lailin Xu (Brookhaven National Laboratory (US)) Standard Model quadratic gauge couplings in action (VBS and tribosons) @20m 2 -Speaker: Rustern Ospanov (University of Science and Technology of China) @ 20m 2 -**Ongoing EWK analyses** Speaker: Dimitrii Krasnopevtsev (University of Science and Technology of China (CN)) © 20m 🖉 • First run 2 papers lessons and full run 2 projections Speaker: Iro Koletsou (Centre National de la Recherche Scientifique (FR)) **16:00** → 16:30 Tea break () 30m Peoples Palace

Time-Table: ...continued and Thursday (Theory)



Time-Table: Friday (Future)

			FRIDAY, 7 SEPTEMBER						
10:30 → 12			Measurements: Opportunities for Run-2 papers ew Pilkington (University Of Manchester)	♥ Peop	les Palace 🖉 *				
			troweak Physics and Rare Processes (15+5) ker: Cong Geng (University of Michigan (US))		© 20m 🖉 -				
			ortant W/Z measurements (15+5) ker: Jan Kretzschmar (University of Liverpool (GB))		© 20m 🖉 🍷				
			ortunities in Diffractive and SoftQCD Physics (15+5) ker: Sarka Todorova (Centre National de la Recherche Scientifique (FR))		320m 🖉 -				
			s for Jet/Photon Measurements (15+5) ker: Heberth Jesus Torres Davila (Technische Universitaet Dresden (DE))		© 20m ∠ •		No. of Concession, name		-
12:00 → 12	2:15		Tea Break	③ 15m	• Peoples Palace				-
12:15 → 13		LPCC Efforts: F Convener: Ulla B	Reports Blumenschein (University of London (GB))	9 Peop	les Palace 🖉 -		1		
		12:15 Comp	parisons/combinations of experiments, correlations of uncertainties		©15m 🖉 ▾				
		12:40 BSM	interpretations of SM measurements: Common fiducial regions & tools, common a	pproaches	©15m 🖉 ▾				
		13:05 Progr	ress on theory predictions: benchmarking, new aproaches, common MC references		©15m ∠ •		-		
13:30 → 13			ve the ATLAS Standard Model Working Group las Schott (Johannes-Gutenberg-Universitatet Mainz (DE))	③ 20m ♀ Peop	les Palace 🖉 -	and the second second	THE REAL PROPERTY.		
13:50 → 14		Workshop Clos Speaker: Bogdar	sure In Malaescu (Centre National de la Recherche Scientifique (FR))	⊙10m ♀ Peop	les Palace 🖉 🔪		= ⁼		
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ATLAS Standard Model Group

Let's enjoy our time here in London and make this workshop a success!

Bogdan Malaescu, Matthias Schott