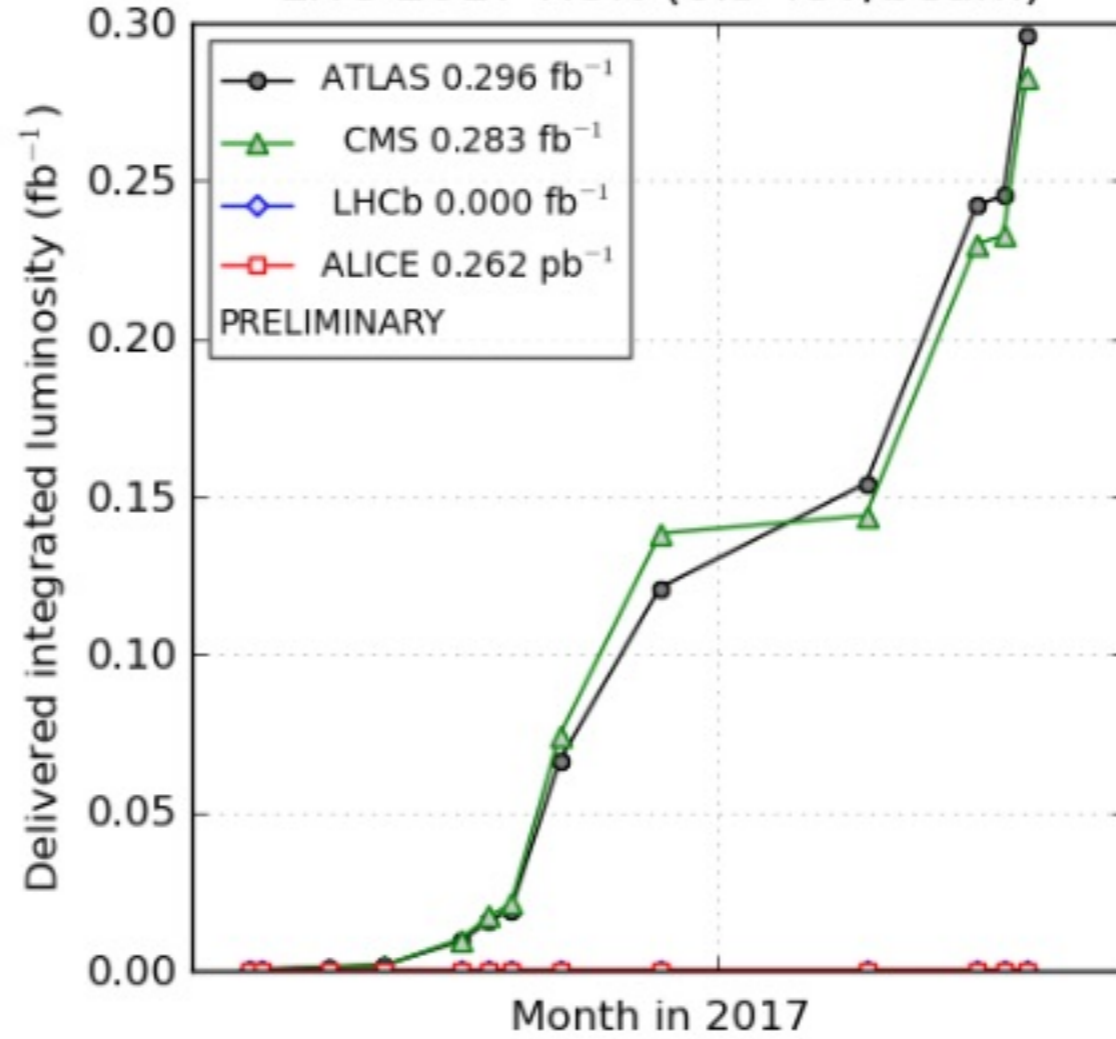


TH Institute

LHC and the Standard Model: Physics and Tools

June 12-23 (“pheno”) June 26 - July 7 (“amps”)

LHC 2017 RUN (6.5 TeV/beam)



	Apr		May							June			
Wk	14	15	16	17	18	19	20	21	22	23	24	25	26
Mo	3	10	Easter Mon 17	24	1st May 1	8	15	22	29	Whit 23	12	19	26
Tu													
We													
Th								Ascension 21					
Fr		G. Friday 15											
Sa													MD 1 26
Su													

- Technical Stop
- Machine development
- Recommissioning with beam
- Special physics runs (indicative - schedule to be established)
- Scrubbing (indicative - dates to be established)

MONDAY, 12 JUNE

09:00 → 13:00

Registration

14:00 → 14:10

Welcome and introduction

Speaker: Michelangelo Mangano (CERN)

14:10 → 14:40

Associated Higgs boson production with a top-quark pair at NNLL+NLO accuracy

Speaker: Anna Katarzyna Kulesza (Westfaelische Wilhelms-Universitaet Muenster (DE))

TUESDAY, 13 JUNE

09:30 → 10:00

Coffee break

10:00 → 12:00

Parton showers beyond LO splitting

10:00

Implementing NLO DGLAP evolution in parton showers

Speaker: Frank Martin Krauss (University of Durham (GB))

10:40

Status of NLO antenna showers

Speaker: Peter Skands (Monash University (AU))

11:20

QCD Showers beyond leading order

Speaker: Christian Bauer

WEDNESDAY, 14 JUNE

09:30 → 10:00

Coffee break

16:30 → 17:30

The Future is Open: Jet Substructure with CMS Public Data

Speaker: Jesse Thaler

THURSDAY, 15 JUNE

09:00 → 18:00 Miniworkshop on Collective effects in small systems

[Link to the detailed ...](#)

FRIDAY, 16 JUNE

09:00 → 11:10 PDFs

09:00 **PDF Flavor Determination with LHC W/Z production [including P-Pb and PbPb]**
Speakers: Fred Olness (Southern Methodist University (US)) , Fred Olness (Southern Methodi:

09:30 **Resummation in PDFs fits**
Speaker: Luca Rottoli (University of Oxford)

10:00 **Open problems in the evaluation of prompt neutrino fluxes**
Speaker: Maria Vittoria Garzelli

10:20 **Theory systematics in PDFs**
Speaker: Stefano Forte (Università degli Studi e INFN Milano (IT))

10:50 **Coffee break**

11:10 → 13:00 PDFs: PDFs in shower MCs

11:10 **tba**
Speaker: Luca Perrozzi (Eidgenoessische Technische Hochschule Zuerich (CH))

11:30 **tba**
Speaker: Torbjorn Sjostrand (Lund University (SE))

11:50 **tba**
Speaker: Robert Samuel Thorne (University College London (UK))

Other events of potential interest in the next two weeks

- Wed 14, 11am Main Auditorium, 1st of new “Data science” seminars:
“Less is more: regularization perspectives on large scale machine learning”
- Thu 15, 11am TH common room, Collider Cross Talk
“ $g \rightarrow b \bar{b}$ in Z events”
- Tue 20, 11am Salle Curie (40-S2-C01), EP-LHC seminar,
“First search for boosted Higgs boson production using the $H \rightarrow b\bar{b}$ decay with CMS”

Future LHC-related events

- HL-LHC/HE-LHC Physics workshop:
 - year-long event, to deliver Yellow Report by end of 2018
 - WGs on SM, Higgs, BSM, flavour, Heavy Ions
- Dates for kick off being finalized, likely
 - Oct 30 - Nov 1 2017