ATLAS FCPPL Projects session Introduction

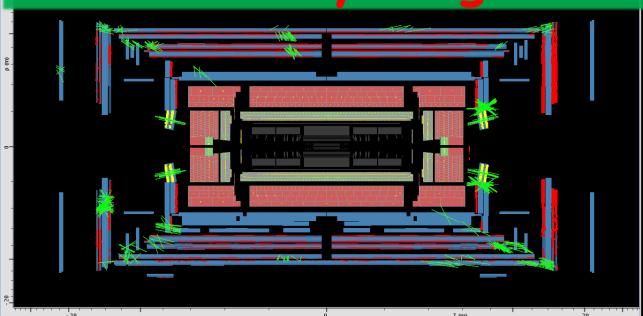


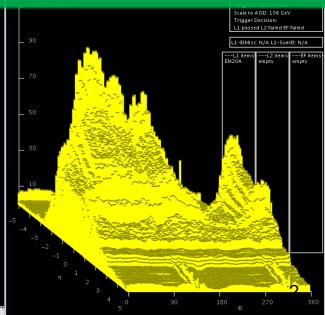
Shan JIN (IHEP) / Emmanuel MONNIER (CPPM)

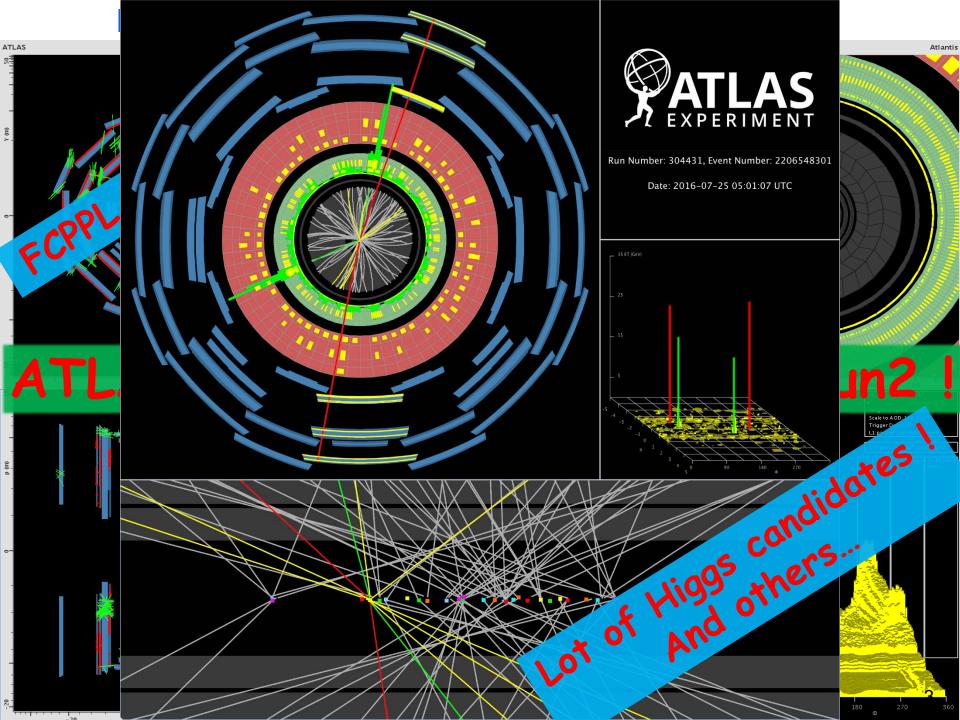


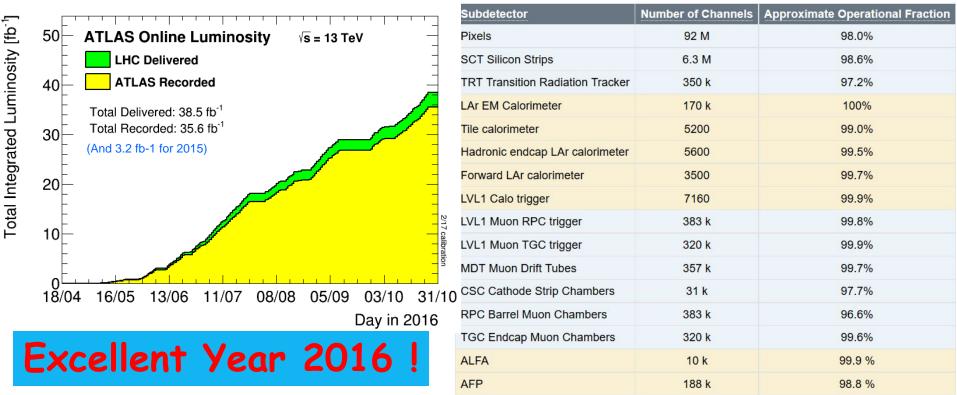
First LHC Run2 2016 beam splashes in ATLAS

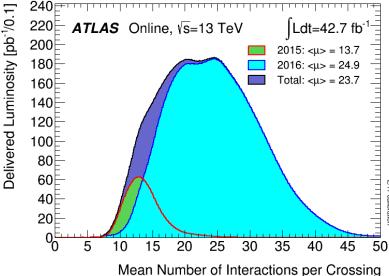










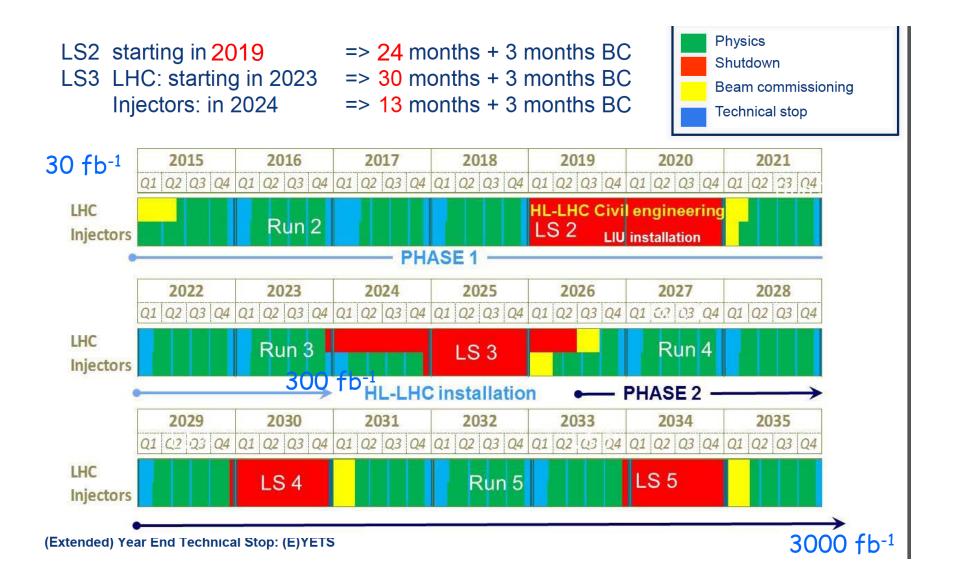


ATLAS pp 25ns run: April-October 2016

Inner Tracker			Calori	meters	Mud	on Spe	ctrom	eter	Magn	Trigger	
Pixel	SCT	TRT	LAr	Tile	MDT	RPC	CSC	TGC	Solenoid	Toroid	L1
98.9	99.9	99.7	99.3	98.9	99.8	99.8	99.9	99.9	99.1	97.2	98.3

Good for physics: 93-95% (33.3-33.9 fb⁻¹)

Luminosity weighted relative detector uptime and good data quality efficiencies (in %) during stable beam in pp collisions with 25ns bunch spacing at \sqrt{s} =13 TeV between April-October 2016, corresponding to an integrated luminosity of 35.9 fb⁻¹. The toroid magnet was off for some runs, leading to a loss of 0.7 fb⁻¹. Analyses that don't require the toroid magnet can use that data.



Phase-II overall progress

After Kevin Einsweiler (9 Dec)

Summary for Phase-2: Milestones from Sep 2015 (Nov 2016)

Milestones prepared for UCG Review in Sept 2015:

- Complete TDAQ Initial Design Review: Mar 2016 Nov 2016 (TDR Dec 2017)
- Complete Muon Initial Design Review: Jun 2016 Nov 2016 (TDR Jun 2017)
- Complete LAr Initial Design Review: Sept 2016 Feb 2017 (TDR Sept 2017)
- Complete Tile Initial Design Review: Sept 2016 Feb 2017 (TDR Sept 2017)
- ITk Milestones: Strip TDR Dec 2016, Pixel TDR Dec 2017
- Color code: Date = Completed or On Schedule, Date = Estimated Schedule

Following their successful Initial Design Reviews (IDRs) the TDAQ and Muon Phase-II upgrades were formally approved as ATLAS Upgrade Projects at the December EB (joining Itk), for endorsement at the CB on Friday this week LAr and Tile Phase-II upgrades will follow later in 2017 All proceed towards TDRs by the end of the year

K. Einsweiler - Lawrence Berkeley Lab 12/9/2016 16

Phase-II overall progress

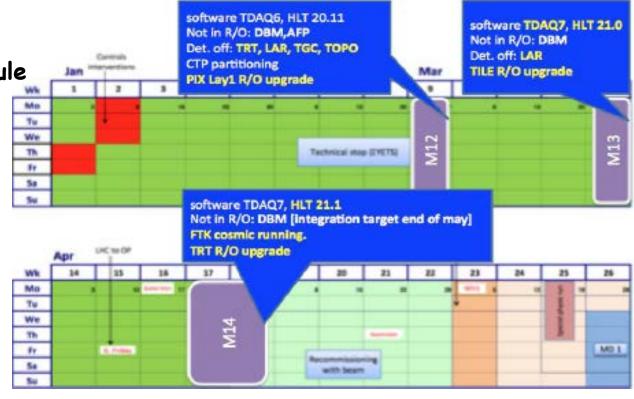
After Kevin Einsweiler (9.1)

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All proceed towards TDRs by the end of the year K. Einsweiler - Lawrence Berkeley Lab

LHC schedule 2017 (draft)
ATLAS start of run schedule

Expect Lumi up to 2×10^{34} !



	July		Aug					Sep							
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27-Maneed to think on opportunities to further cooperate

ACC(IHEP/NJU/SDU/USTC...)-IN2P3(CPPM/LAL/LPNHE/CC)-CEA

- Very strong cooperation program between the Atlas Chinese Cluster and CPPM, LAL, LPNHE since several years:
 - Higgs, Susy studies (through γ γ , WW final states and also lepton/jet/bjet/top final states such as in ttH)
 - (C. Diaconu, Y. Liu, H. Ren, C. Wang, W. Song talks)
 - Multi-boson studies
 - Top properties
 - Performance studies (E/gamma, B tag, Trigger, Calorimeter)
 - Silicon detector R&D (J. Liu, P. Pangaud, Thursday R&D session)
 - Numerous presentation in Atlas meetings, conferences as well as in internal, public/conf notes and publications.
 - Many senior physicists visits (France and China) with continuous cooperation work between ACC physicist and IN2P3 physicists
 - Several co-PhD thesis defended in 2016, J. Liu, and more to come in 2017: H. Ren... (Co-PhDs are an important strengthing force fo the LIA)
- Strong cooperation on WLCG, IHEP/IN2P3/CEA (C. Gang talk)

26-Mar-17 E. Monnier - FCPPL2017 10

ATLAS ACC-IN2P3 heavily involved in Run2 data analyses & performance studies in 2016-2017 aiming at 2015+2016 publications.

- Co-PhD:
 - Y. Zhao (LAL/SDU) SDU/LAL/Eiffel funded (started 09/14)
 - H. Zhang (LAL/Nanjing) CSC funded (started 09/15)
 - Y. Ma (LAL/SDU) SDU/CSC funded (started 09/15)
 - C. Li (LPNHE/USTC) USTC funded (started 09/15)
 - R. Zhang (CPPM/USTC) CSC/USTC/FCPPL funded (09/14)
 - C. Wang (CPPM/SDU) CSC Cai Yuanpei funded (09/14)
 - H. Ren (CPPM/IHEP) CAS/IHEP/FCPPL funded (09/14)
 - No start of Co-Phd in fall 2016, stat fluct. But need to act!
- K. Liu former PhD (USTC/LPNHE) Postdoc at CPPM
- Many former Co-PhD students now postdoc or permanent positions
- Strong SLHC Silicon detector R&D cooperation program ongoing,
- J. Liu (SDU/CPPM), SDU/FCPPL/Eiffel funded, defended May 2016, But need new PhD students & short stay scientists to strengthen it!
- Need to strengthen manpower/funds for strong ATLAS Run 2 analysis and R&D for ATLAS upgrade and future detectors.

ב	ATLAS recent highlights talk	Xin CHE
5	Lecture Hall, Department Of Engineering Physics, Liuqing Building	13:30 - 13:5
00	CMS recent highlights talk	Junquan TA
ກ	Lecture Hall, Department Of Engineering Physics, Liuqing Building	13:55 - 14:2
	ATLAS introduction	Mr. emmanuel MONNIE
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	14:20 - 14:3
	LPNHE/USTC collaboration	Prof. Yanwen LIU
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	14:30 - 14:5
	LAL/SDU collaboration	Weimin SONG
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	14:50 - 15::
לן נו	Coffee break	
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	15:10 - 15:
	CPPM/SDU collaboration: ttH analysis in multilepton at ATLAS	Chao WAN
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	15:30 - 15:5
	CPPM/IHEP collaboration: Susy searches in two same sign lepton final states	Huan RE
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	15:50 - 16:
	CPPM/USTC collaboration: Double Charged Higgs searches	Cristinel DIACON
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	16:10 - 16:3
	CMS introduction	Suzanne GASCO
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	16:30 - 16:4
	IPHC-Peking U collaboration	Qiang LI
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	16:40 - 17:0
	IPNL-IHEP: H>gamma gamma in CMS	Linda FINC
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	17:00 - 17:2
	IPNL-IHEP Low mass H>gamma gamma in CMS	Ms. Sijing ZHAN
	Lecture Hall, Department Of Engineering Physics, Liuqing Building	17:20 - 17:4
)	WLCG CC-IN2P3-IHEP	Dr. Gang CHEN
ر	Lecture Hall, Department Of Engineering Physics, Liuqing Building	17:40 - 18:0

谢谢! Merci! Thank You!