

# ITS Overall Commissioning Plans

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CERN

# Introduction

- Team effort
- Organization of this work and the time line driven by the needs of the detector operation
- Opportunity to be trained for on-call shifts and the upcoming Service Work
- One common goal:  
getting the detector into efficient operation ensuring maximum safety

# Commissioning Team

- Coordination: Felix Reidt
- Deputies: Domenico Colella, Sergey Senyukov
- Coordinators and on-call / on-site experts (to be extended):

Subsystem	Coordinator	On-call / on-site experts
Inner Barrel	Magnus Mager	Miljenko Suljic
Outer Barrel	Jochen Klein	
Electronics	Jo Schambach / Piero Giubilato	Arild Velure, Matteo Lupi
DCS / DSS	Paolo Martinengo / Sergey Senyukov	Ivan Cali, Michael Peters
Power System	Hartmut Hillemans	Alberto Collu
Cooling System	Sergey Senyukov	Philippe Bouvier
Calibration / DQM	Markus Keil	Mario Sitta, Zhaozhong Shi
Services	Antoine Junique	Bilal Shahid
Assembly	Corrado Gargiulo	Andres Galdames Perez

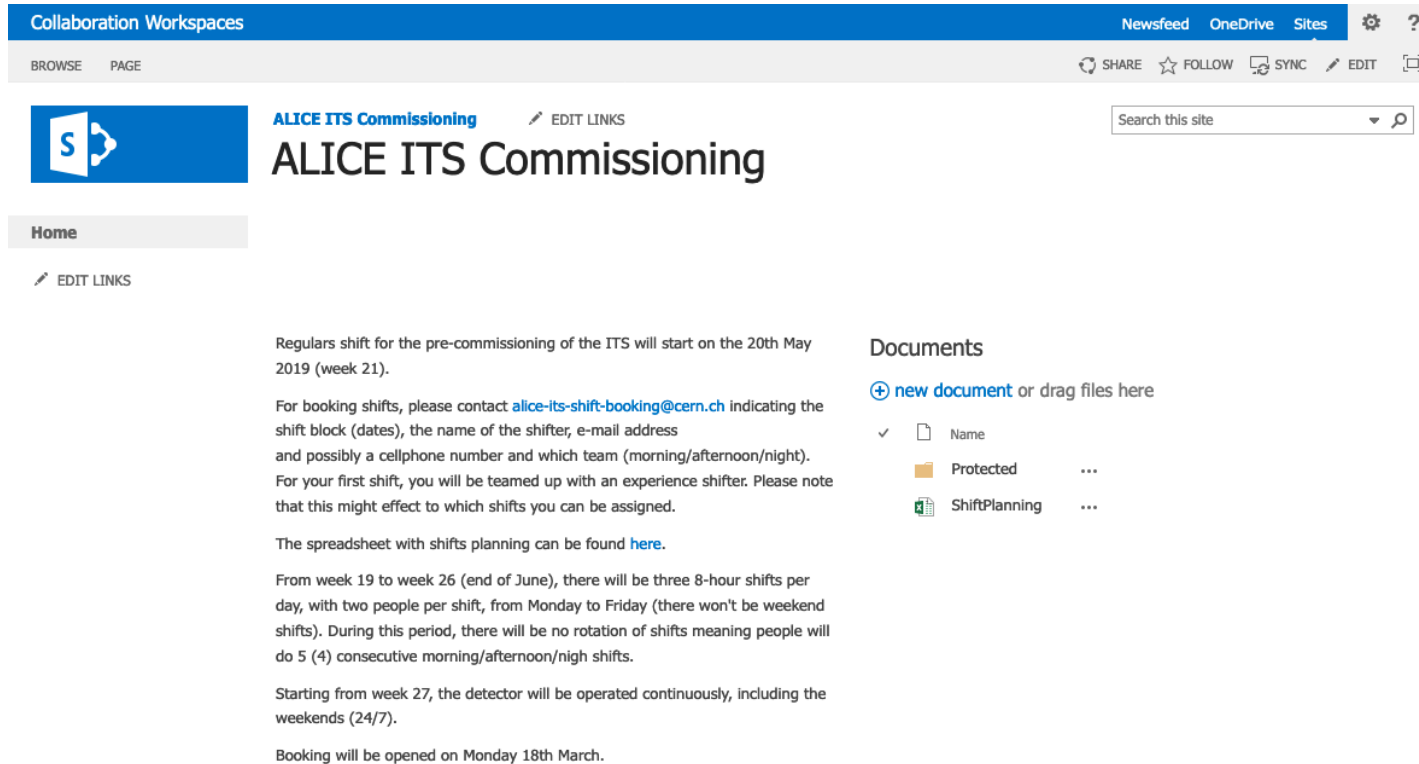
# Planning

- May 5<sup>th</sup> to May 17<sup>th</sup> (week 19 and 20): no shifts
- From May 20<sup>th</sup>
  - Start of continuous operation with layer 2 and layer 6
  - Running from Monday morning until Friday afternoon
- From July 1<sup>st</sup> (week 27):
  - Running over the weekend, detector kept on 24/7

# Shifts

- 3 teams with 2 shifters each
- Training on the job (experience shifter teamed up with newcomer)
- New shift scheme for the first weeks:
  - No rotation during the week-only shifts
  - Blocks of 5 morning, 5 afternoon and 4 (!) night shifts
  - Resting time too short with rotation and only 3 teams
  - Night shifts allow to arrive on Monday and leave on Friday
- Please urgently book shifts from June on
- Production has priority!
- Thanks to Svetlana, Valentina, Artem, Filip and Qasim for booking shifts early on

# Shift Booking - Sharepoint



The screenshot shows a SharePoint 'Collaboration Workspaces' page for 'ALICE ITS Commissioning'. The top navigation bar includes 'Newsfeed', 'OneDrive', and 'Sites'. Below the header, there's a search bar and a 'Home' button. The main content area contains several paragraphs of text and a 'Documents' section. The text provides information about shift booking, including contact details and shift schedules. The 'Documents' section lists 'Protected' and 'ShiftPlanning' files.

Collaboration Workspaces

Newsfeed OneDrive Sites

BROWSE PAGE

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EDIT LINKS

Regulars shift for the pre-commissioning of the ITS will start on the 20th May 2019 (week 21).

For booking shifts, please contact [alice-its-shift-booking@cern.ch](mailto:alice-its-shift-booking@cern.ch) indicating the shift block (dates), the name of the shifter, e-mail address and possibly a cellphone number and which team (morning/afternoon/night). For your first shift, you will be teamed up with an experience shifter. Please note that this might effect to which shifts you can be assigned.

The spreadsheet with shifts planning can be found [here](#).

From week 19 to week 26 (end of June), there will be three 8-hour shifts per day, with two people per shift, from Monday to Friday (there won't be weekend shifts). During this period, there will be no rotation of shifts meaning people will do 5 (4) consecutive morning/afternoon/night shifts.

Starting from week 27, the detector will be operated continuously, including the weekends (24/7).

Booking will be opened on Monday 18th March.

Documents

+ new document or drag files here

✓	Name	
	Protected	...
	ShiftPlanning	...

- Information can be found on [Sharepoint](#)
- For booking, email to [alice-its-shift-booking@cern.ch](mailto:alice-its-shift-booking@cern.ch)

# Shift Booking – Current Scheme

Excel Online

Felix Reidt

ALICE ITS Commissioning

ShiftPlanning

Edit Workbook

Print

Exit

Share

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Week 21		20th May - 26th May					Shift scheme									
2																	
3																	
4			First name	Family name	Email address				7:00 - 15:00		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5	Shift leader										1 A	A	A	A	A	-	-
6									15:00 - 23:00		2 A	A	A	A	A	-	-
7			Shifters								1 B	B	B	B	B	-	-
8			First name	Family name	Email address				23:00 - 7:00		2 B	B	B	B	B	-	-
9	Team A	1	Valentina	Raskina	<a href="mailto:valentina.raskina@cern.ch">valentina.raskina@cern.ch</a>						1 C	C	C	C	-	-	-
10		2								2 C	C	C	C	C	-	-	-
11	Team B	1	Qasim Wheed	Malik	<a href="mailto:q.w.malik@fys.uio.no">q.w.malik@fys.uio.no</a>										Switching off during afternoon shift		
12		2															
13	Team C	1															
14		2															
15																	
16	On-call experts																
17			First name	Family name	Email address												
18	DCS																
19	Cooling																
20	Power system																
21	Detector																
22	Software																
23																	
24	On training																
25			First name	Family name	Email address												
26			Valentina	Raskina	<a href="mailto:valentina.raskina@cern.ch">valentina.raskina@cern.ch</a>												
27			Qasim Wheed	Malik	<a href="mailto:q.w.malik@fys.uio.no">q.w.malik@fys.uio.no</a>												
28																	
29																	

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# Contributions by the Institutes

- Round of discussions with many institutes in April
- Summary of these discussions and email exchanges in the meanwhile
- Shift participation not listed in the following
- Please send us feedback if there are changes or incomplete information



# Contributions by Institutes

- Alessandria:
  - Mario Sitta at CERN until end of September (DQM)
- Austin:
  - Jo Schambach (readout electronics), 60% at CERN 2019, 100% at CERN first half of 2020 (tbc)
- Bari
  - Domenico Colella at CERN after HIC production until May 2020
  - Giuseppe Trombetta, at CERN from July 2019 for one year (30% on calibration framework)
  - Gabriele Fiorenza, upon request for specific mechanical engineering tasks
  - Fabio Colamaria (calibration framework or DQM)
  - Antonio Franco (calibration framework, 70%)
  - Cesar Ceballos Sanchez (DQM)

# Contributions by Institutes

- Berkeley (2019 + 2020)
  - Alberto Collu (power boards), ~8 weeks of CERN presence
  - Nikki (Outer Barrel), ~3 weeks of CERN presence
  - Students, ~ 16 weeks of CERN presence
- Cagliari: internal discussion needed
- Catania:
  - PhD student in need of a service task
  - Potentially technicians contributing to the assembly
  - Discussion will continue this week at CERN
- CCNU:
  - PhD student from May 2019 on (part time)

# Contributions by Institutes

- Daresbury / Liverpool: discussion still to take place
- Frascati
  - Pavel Larionov (Outer Barrel), September to November 2019
- Indonesia (mid-Sept to mid-Dec 2019 + 3 months in 2020)
  - Suharyo Sumowidagdo,
  - Swivano Agmal
- Inha:
  - Jonghan Park (Outer Barrel, stave reception), now until Feb 2020
  - Jiyeon Kwon (calibration software /DQM), week 28, least until Feb 2020 + July 2020 to Feb 2021
  - Jinjoo (Outer Barrel, stave reception), 28 at least until Feb 2020 + July 2020 to Feb 2021

# Contributions by Institutes

- Kosice (mainly remotely):
  - Peter Kalinak (calibration framework)
  - Ivan Kralik (calibration framework)
  - Lukas Tropp (calibration framework, secondary activity)
- MIT (already all at CERN, until the end of 2020):
  - Ivan Cali (DCS/DSS)
  - Michael Peters (DCS/DSS)
  - Zaozhong Shi (DQM)
  - Molly Taylor (DCS/DSS)
- NIKHEF:
  - Post-doc for 2 years at CERN

# Contributions by Institutes

- Norway:
  - Qasim (to be defined, Service Task), mid-May,
  - Ganesh Tambave (Outer Barrel), ~2 weeks / 3 months at CERN
  - Student (readout electronics), to be defined
- Padova:
  - Filippo Baruffaldi (readout electronics, Service Task) from Summer on at CERN
  - Stefano Trogolo (tracking and alignment, part time, remotely)
  - Andrea Rossi (tracking and alignment, part time, remotely)
- Prague:
  - Svetlana Kushpil (DQM/QA)
  - Artem Isakov (calibration framework, Service Task)

# Contributions by Institutes

- Pusan:
  - Beomkyu Kim (calibration framework), from June 2019 at CERN
  - Vit Kucera (calibration framework), from July 2019 at CERN
  - Bonghwi Lim (reception testing and layer assembly testing), from mid-June 2019 at CERN
  - Jongsik Eum from mid-June 2019 at CERN
  - Jihye Jeong (reception test and layer assembly testing), from mid-June 2019 at CERN
  - Minjae Kwon (DQM), from September 2019 at CERN
- Strasbourg:
  - Sergey Senyukov (DCS/cooling), from July 2019 until at least end of 2019 at CERN
  - Franck Agnese (to be defined), June 2019 at CERN
  - Marc Imhoff (to be defined), dates to be defined

# Contributions by Institutes

- Thailand (SUT/SLRI):
  - Kritsada Kittimanpun (to be defined), 1 year starting middle of 2019
- Torino:
  - Jochen Klein (Outer Barrel), 50% at CERN from now on, full-time after the stave rework is over
  - Elena Botta (DQM)
- Trieste
  - Giacomo Contin (Outer Barrel), ~August 2019 at CERN
  - Valentina Zaccolo (DQM), ~August 2019 at CERN
  - Multiple persons could get involved remotely in DQM

# Contributions by Activities

- Calibration / Alignment / Reconstruction Software

- Mario Sitta (Alessandria)
- Antonio Franco (Bari)
- Giuseppe Trombetta (Bari)
- Markus Keil (CERN)
- Jiyeon Kwon (Inha)
- Peter Kalinak (Kosice)
- Ivan Kralik (Kosice)
- Lukas Tropp (Kosice)
- Stefano Trogolo (Padova)
- Andrea Rossi (Padova)
- Artem Isakov (Prague)
- Beomkyu Kim (Pusan)

- Vit Kucera (Pusan)
- Wuhan team

- DQM / QA

- Mario Sitta (Alessandria)
- Cesar Ceballos Sanchez (Bari)
- Fabio Colamaria (Bari)
- Markus Keil (CERN)
- Zaozhong Shi (MIT)
- Minjae Kwon (Pusan)
- Valentina Zaccolo (Trieste) + other team members



# Contributions by Activities

- DCS / DSS
  - Paolo Martinengo (CERN)
  - Ivan Cali (MIT)
  - Michael Peters (MIT)
  - Molly Taylor (MIT)
  - Sergey Senyukov (Strasbourg)
- Cooling
  - Sergey Senyukov (Strasbourg)
  - Phillippe Bouvier (CERN)

# Contributions by Activities

- Outer Barrel (including Stave Reception and Preparation):
  - Ganesh Tambave (Bergen)
  - Hira Ilyas (Bergen/Islamabad)
  - Nikki Apadula (Berkeley)
  - James Iddon (CERN)
  - Felix Reidt (CERN)
  - Jonghan Park (Inha)
  - Jinjoo Seo (Inha)
  - Pavel Larionov (Frascati)
- Farhad Ali (Islamabad)
- Bonghwi Lim (Pusan)
- Jihye Jeong (Pusan)
- Tatiana Lazareva (St. Peterburg)
- Dimitri Nesterov (St. Petersburg)
- Giacomo Contin (Trieste)

# Contributions by Activities

- Readout Electronics:
  - Jo Schambach (Austin)
  - Arild Velure (CERN)
  - Matteo Lupi (CERN)
  - Filippo Baruffaldi (Padova)
  - Student from Bergen
- Power Electronics
  - Alberto Collu (Berkeley)
- Assembly and Services:
  - Gabriele Fiorenza (Bari)
  - Catania (tbc)
  - Corrado Gargiulo (CERN)
  - Antoine Junique (CERN)
  - Jaap van Beelen (CERN)
  - Andres Galdames Perez (CERN)
  - Fabio Pelegrino (CERN)
  - Bilal Shahid (Islamabad)
  - Farhad Ali (Islamabad)
  - Raja Shabaz Ali (Islamabad)
  - Vadim (St. Petersburg)
  - Franck Agnese (Strasbourg)
  - Marc Imhoff (Strasbourg)