



ATLAS Napoli Meeting

Comunicazioni

V. Izzo

22 Maggio 2025

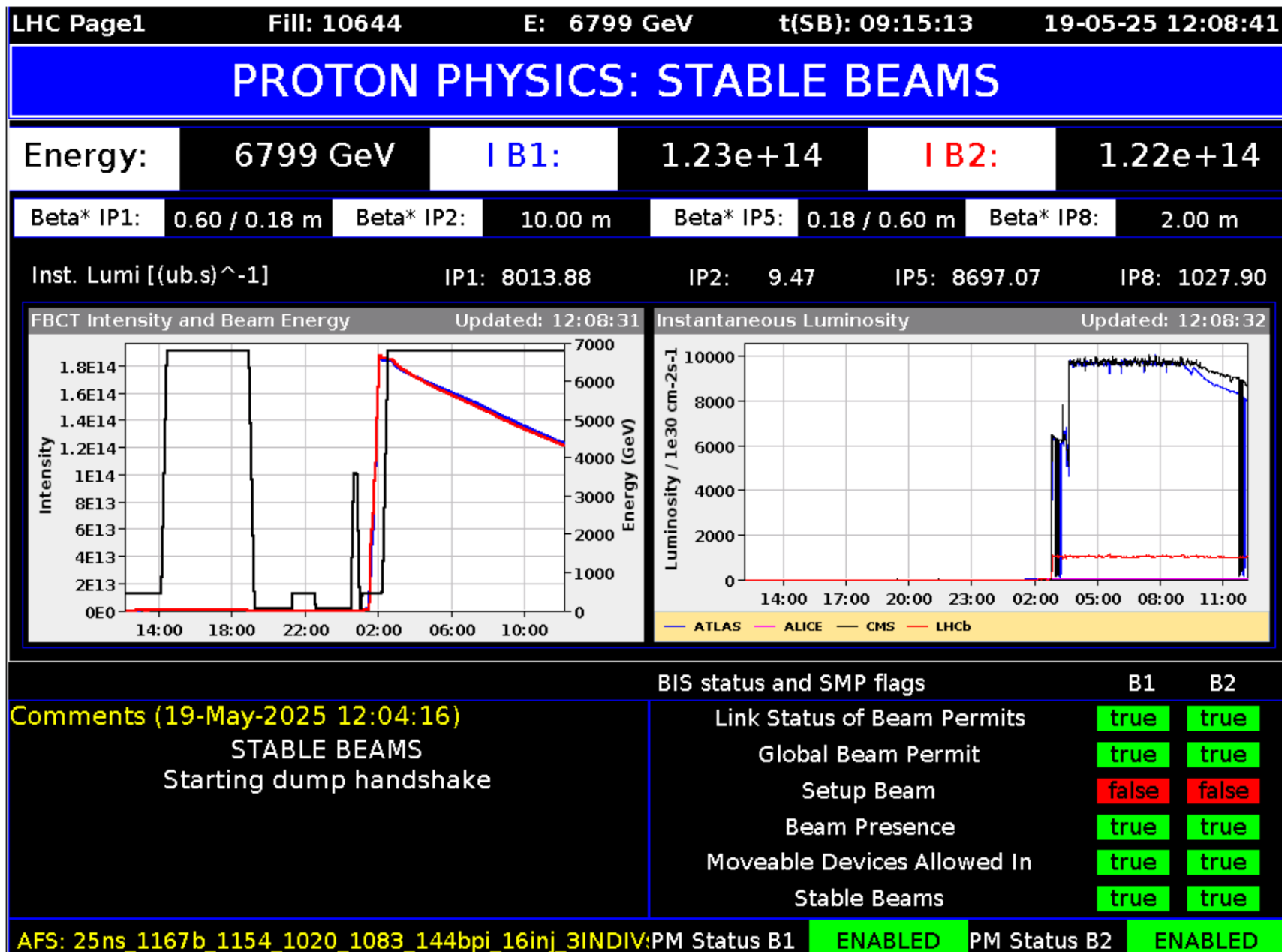


Logo for Run 3 prepared by Outreach

Auguri....



News da ATLAS: RUN3



News da ATLAS: RUN3

Data taking in 2025 - Physics soon underway!

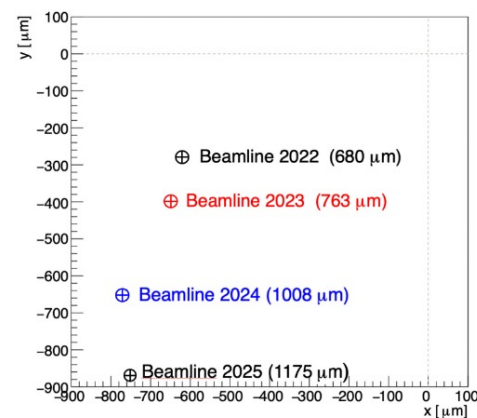
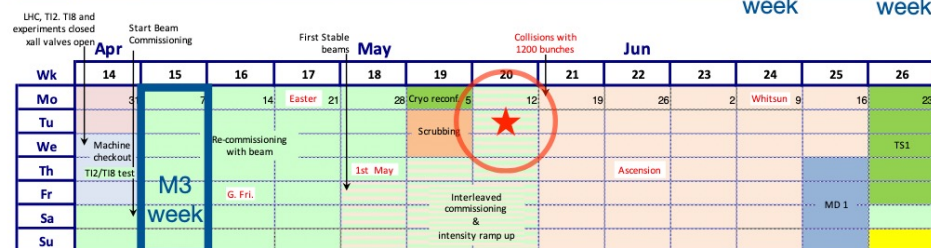
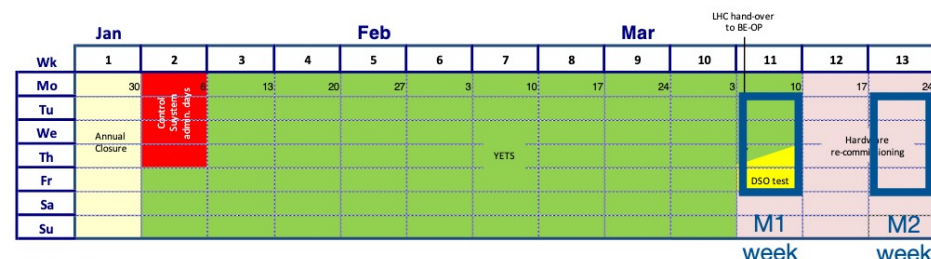
S. Willocq, 13 maggio



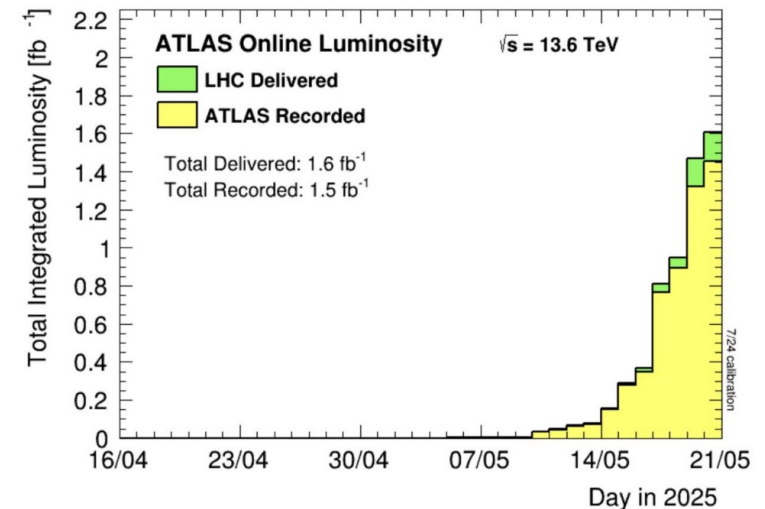
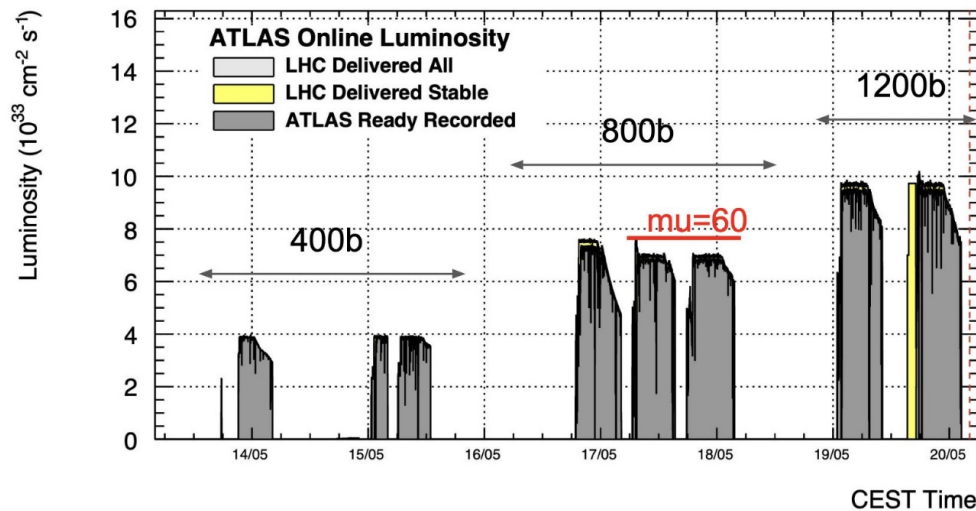
LHC 2025 schedule v1.0

Finishing start-up ATLAS planning LHC planning

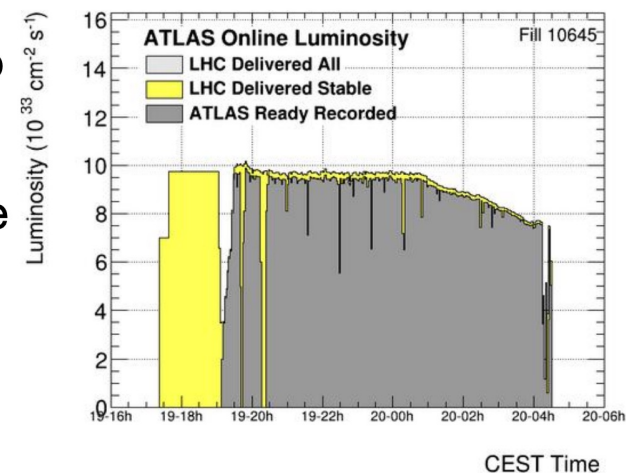
- Stable beams at 13.6 TeV on May 5
- Intensity ramp-up ongoing
 - ▶ 3, 12, 75 bunches achieved
 - ▶ Collimation work and scrubbing runs also performed
 - ▶ Vacuum recovery from kicker magnet replacement has slowed ramp-up, more scrubbing needed
 - ▶ Expect 400 bunches today, then 800 bunches later this week
- Physics data taking (≥ 1200 b) on ~May 19
- Shift of beam spot in xy $\rightarrow 1.2$ mm
 - Checking potential impact due to asymmetric resolution effects
 - Request correction?



News da ATLAS: RUN3



- Yesterday afternoon CTP crashed several times, including while LHC was injecting beam, run had to be stopped, suspect broken hardware
- Single-Board Computer replaced in USA15, but this did not fix the issue (new SBC failed to initialise Clock and Timing Receiver Processor)
- Stable beam started without ATLAS running
- Old SBC re-installed, disabling core dump functionality
- No crashes so far, experts still investigating (and a working spare SBC being prepared)



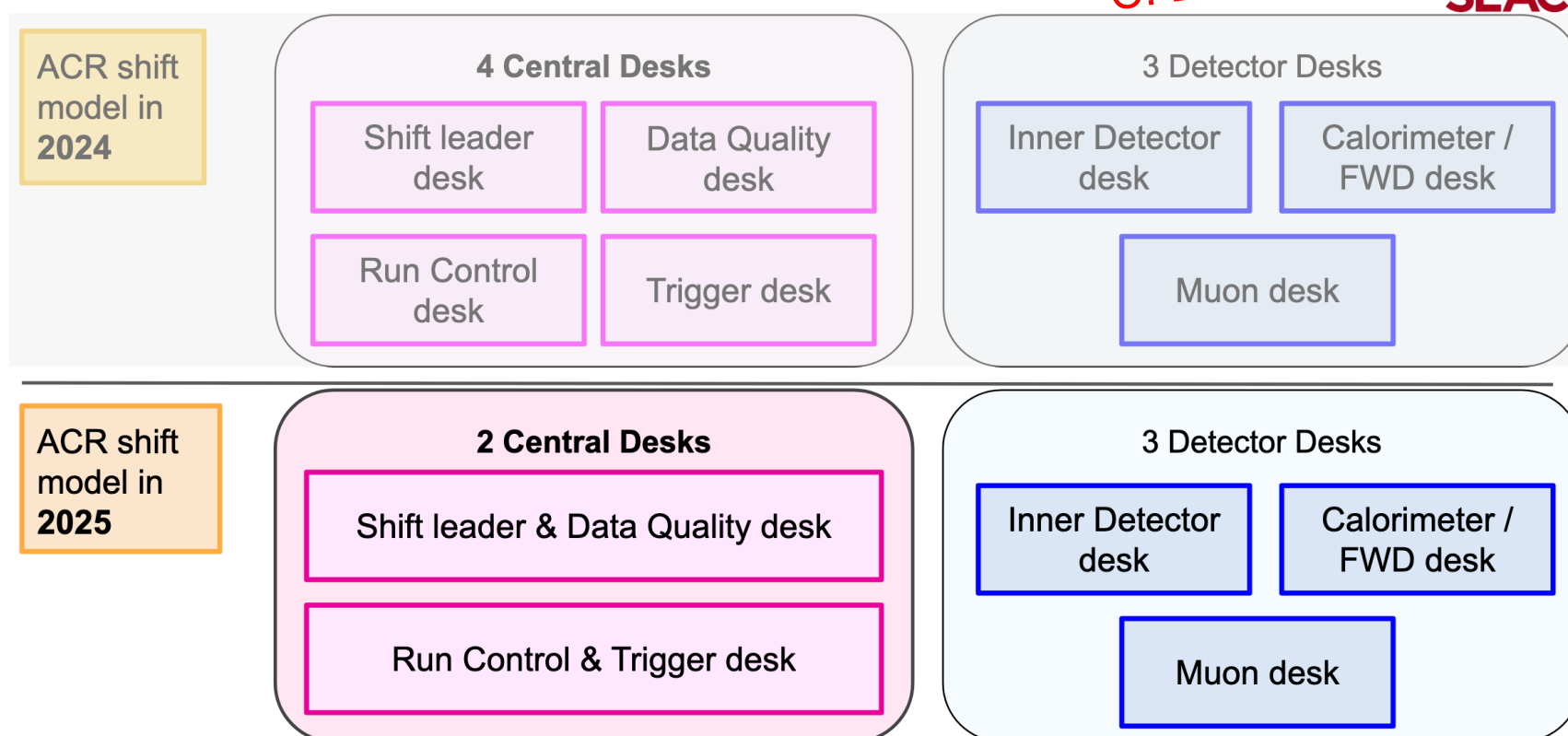


- Situazione turni nel 2025 (reperibile al link: <https://acrshifts.web.cern.ch/>)
- Desk di Trigger e Run Control uniti insieme, così come Data Quality e Shift Leader.

ACR shift model for 2025

To be presented in the ATLAS weekly, 17. Sep

C. Bernius, Settembre 2024
SLAC



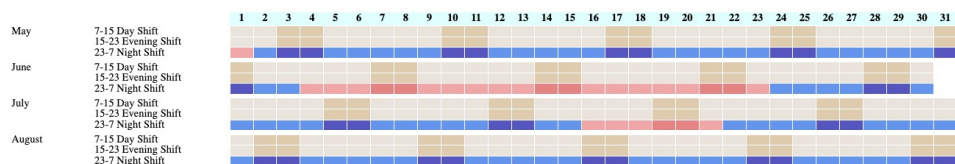


News da ATLAS: RUN3

- Situazione turni nel 2025 (reperibile al link: <https://acrshifts.web.cern.ch/>)
- Desk di Trigger e Run Control uniti insieme, così come Data Quality e Shift Leader.

Display period from 1 mag to 31 ago 2025
- Next four months + All year Color scheme

Run Manager



Booked shifts in displayed period: **96 / 123 (78.0%)**
Uncovered shifts during next 30 days: **12**
The next unbooked shift is in **18 days** on Wed Jun 04 2025

[otp tool](#) | [otp view](#)

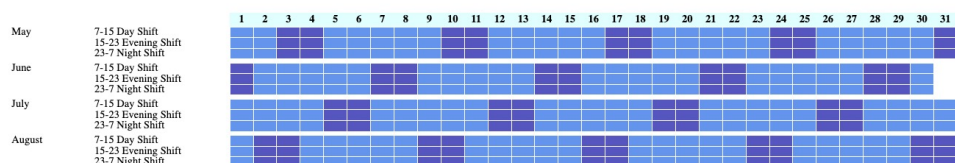
Shift and Data Quality Leader



Booked shifts in displayed period: **353 / 369 (95.7%)**
Uncovered shifts during next 30 days: **3**
The next unbooked shift is in **22 days** on Sun Jun 08 2025

[otp tool](#) | [otp view](#)

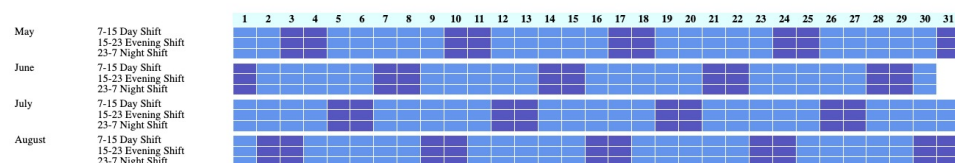
Run Control and Trigger



Booked shifts in displayed period: **369 / 369 (100%)**
Uncovered shifts during next 30 days: **0**
All opened shifts this year are covered

[otp tool](#) | [otp view](#)

Inner Detector



Booked shifts in displayed period: **369 / 369 (100%)**
Uncovered shifts during next 30 days: **0**
All opened shifts this year are covered

[otp tool](#) | [otp view](#)

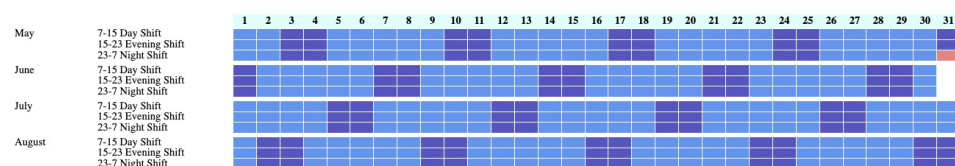
Calorimeter and Forward



Booked shifts in displayed period: **288 / 369 (78.0%)**
Uncovered shifts during next 30 days: **0**
The next unbooked shift is in **76 days** on Fri Aug 01 2025

[otp tool](#) | [otp view](#)

Muon

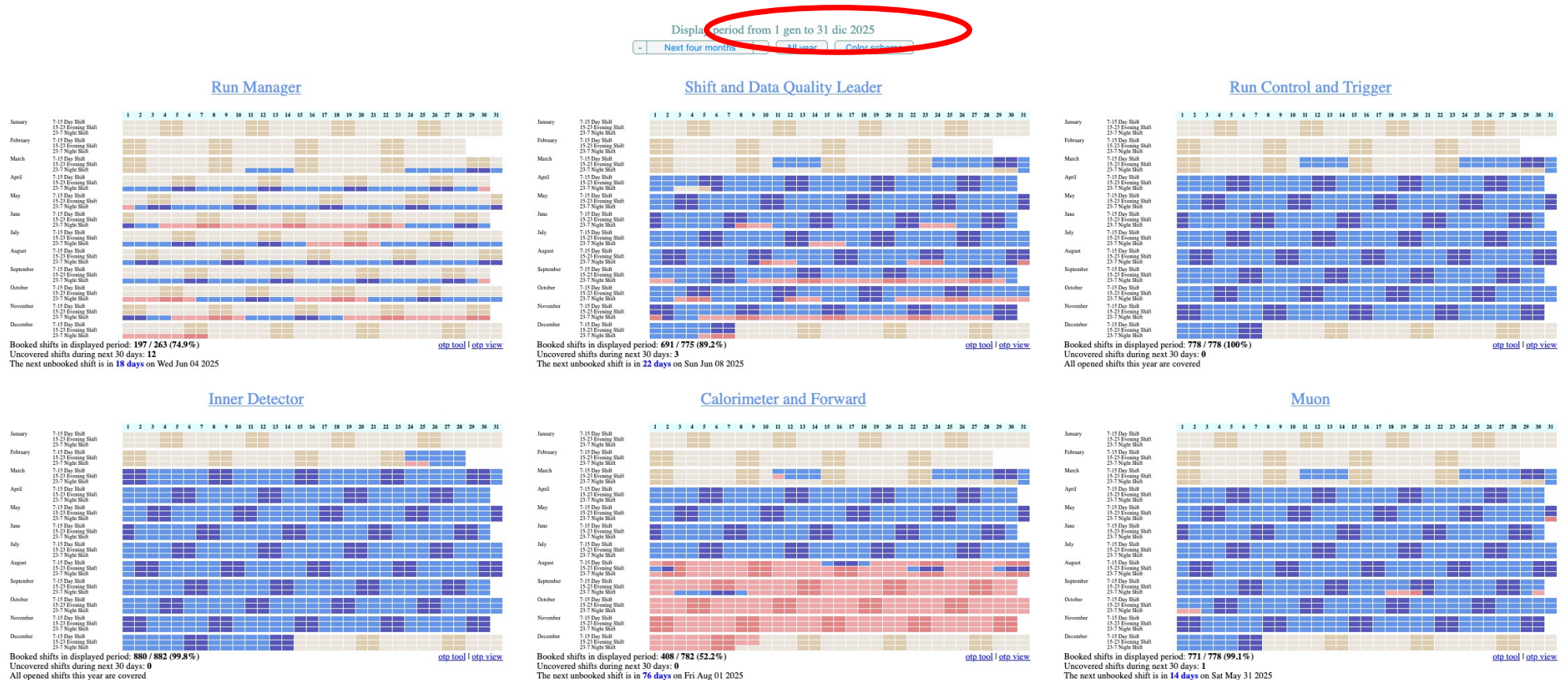


Booked shifts in displayed period: **368 / 369 (99.7%)**
Uncovered shifts during next 30 days: **1**
The next unbooked shift is in **14 days** on Sat May 31 2025

[otp tool](#) | [otp view](#)

News da ATLAS: RUN3

- Situazione turni nel 2025 (reperibile al link: <https://acrshifts.web.cern.ch/>)
- Desk di Trigger e Run Control uniti insieme, così come Data Quality e Shift Leader.



- ATLAS Napoli ha dato il suo buon contributo nel 2024 con turni in ACR e come Experts
- Grazie a tutti per la disponibilità e la dedizione
- Ringrazio i colleghi che si sono impegnati a contribuire alla presa dati anche nel 2025



Elezioni in ATLAS

After a careful evaluation of the nominations and the feedback from the Collaboration, the Search Committee selected a short-list of three candidates. At the forthcoming Collaboration Board meeting on 20 June 2025, the CB is invited to elect one new member-at-large of the POTS among the following candidates:

Gregor Herten (Freiburg)
Andrew James Lankford (UCI)
Sandra Leone (Pisa)



Following the call for nominations for five new members of the Speakers Committee (see below), a Search Committee, consisting of the CB Chair (Maria Jose Costa) and Deputy (Davide Costanzo), the Spokesperson (Stephane Willocq), one Deputy Spokespersons (Anna Sfyrila), the previous and present Speakers Committee Chairs (Hernan Pablo Wahlberg and Iacopo Vivarelli), the SCAB Chair (Lidija Zivkovic) and four colleagues nominated by the CB Chair in consultation with the CB Chair Advisory Group: Wade Cameron Fisher (Michigan SU), Judith Katzy (DESY), James Michael Keaveney (Cape Town), and Victoria Martin (Edinburgh), received 33 nominations for 25 colleagues. The committee members added 4 colleagues to the list of nominees. After a careful evaluation of all nominations and the feedback from the Collaboration, the Search Committee selected five colleagues.

At the forthcoming meeting on 20 June 2025, the CB will be invited to endorse:

Laura Fabbri (Bologna)
Eirik Gramstad (Oslo)
Gustavo Otero y Garzon (Buenos Aires)
Nikolaos Rompotis (Liverpool)
Maria Smizanska (Lancaster)





Missioni 2025

- ◉ A settembre 2024 assegnati **100 k€ + 20 k€ SJ** + Quota indiviso del RN (tot. 452 k€, S.J.)
 - Nel 2024 avevamo ricevuto ~ **62 k€ (+ 19 k€ di sblocco SJ)**
 - Nel 2023 avevamo ricevuto ~ **49.5 k€ (+ 21.5 k€ di sblocco SJ)**
 - Nel 2022 avevamo ricevuto ~ **68.5 k€ (+ 14 k€ di sblocco SJ)**
 - Dal 2025 si pensa a revisione delle regole per Similfellow con potenziale impatto su costi e relativa suddivisione tra i vari gruppi
- ◉ Finora impegnati **~39% dei fondi** nei primi 5 mesi del 2024 (incl. qualche missione di giugno)
 - Per turni, varie presentazioni a conferenze, meeting e attività ITk a Frascati
 - Abbiamo copertura per i turni futuri e (forse) tecnici per riparazioni RPC
 - Invito chi ha già turni prenotati ad aprire la relativa missione
- ◆ Priorità data a:
 - Turni in esperimento (e training propedeutico a turni)
 - Attività di commissioning (fisici) e riparazioni (tecnici) nel 2024 (Gen. Feb.+ Nov. Dic.)
 - Test (Lab, Testbeam, etc.) per attività future o di R&D
 - Meetings: ATLAS Week, Muon & TDAQ & ITk Week, ..
- ◆ Vi ricordo delle varie opportunità di essere membri dei vari Committees:
 - Non solo “ATLAS Speakers Committee” ma anche TDAQ, MUONs, etc
 - Compito impegnativo, ma in alcuni casi è riconosciuto dai referee con finanziamento di resp.



◉ **ATLAS Italia (1-3 Luglio 2025) a Udine**

- Deadline per sottomissione Abstracts chiusa il giorno 16 Maggio
- Deadline per iscrizione estesa al 31 Maggio
- Gli organizzatori raccomandano di procedere all'iscrizione quanto prima
 - ◆ Fee pagata tramite storno tra Sezioni INFN

◆ Argomenti proposti da Napoli:

◆ Benchmarking distributed-interactive HEP analysis workflows on the new Italian National Centre analysis infrastructure

(A. D'Onofrio, E. Rossi, B. Spisso, F. Cirotto, G. Sabella, S. Loffredo, F. Gravili, D. Spiga, T. Tedeschi)

◆ BSM search for new resonances in fully hadronic final states with an Anomaly Detection approach

(A. D'Avanzo, F. Conventi, E. Rossi, F. Cirotto, F. Norcia)

◆ Performance of ATLAS RPCs with new gas mixtures and first look at 2025 data

(M. Corradi, C. Luci, S. Rosati, M. Sessa, D. Truncali)

* the talks will be roughly 10 minutes long, i.e. targeting a specific activity or analysis.



- ◆ Institute Reading è uno degli obblighi che il gruppo ha nei confronti dell'esperimento
- ◆ La maggior parte dei paper arrivati riguarda attività di analisi
 - Finora abbiamo sempre risposto su base volontaria
- ◆ Di conseguenza, l'impegno si sposta sulle poche persone esperte
- ◆ Proposta (nov.'22) di creare diversi team di lettori, in modo che tutti possano contribuire, non solo sugli aspetti specifici di analisi ma anche più generali

◉ Nuova richiesta di Institute Reading ricevuta ieri!

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Pagina principale > CERN Experiments > LHC Experiments > ATLAS > ATLAS Internal > ATLAS Publication Drafts > Search for squarks and gluinos in pp collisions at $\sqrt{s} = 13$ TeV and 13.6 TeV in events with tau leptons, jets and missing transverse momentum using the ATLAS detector

ATLAS Publication Draft

Report number	ATLAS-HMBS-2024-05-001
Version	1
Title	Search for squarks and gluinos in pp collisions at $\sqrt{s} = 13$ TeV and 13.6 TeV in events with tau leptons, jets and missing transverse momentum using the ATLAS detector
Submitter	marie-helene.genest@cern.ch
Date of document	21 May 2025
Deadline for comments	04 Jun 2025
Note	Please enter your comments in CDS by Wednesday, June 4. The paper approval meeting will follow shortly after. For draft 1, please focus on the physics content, as well as the paper structure and flow. A dedicated language editing step will occur prior to the second circulation of this paper. The glance link for this paper is: https://atlas-glance.cern.ch/atlas/analysis/papers/details.php?ref_code=HMBS-2024-05 The author list for this paper can be found at: The acknowledgements for this paper can be found at:
Draft abstract	A search for R-parity-conserving supersymmetry in events with large missing transverse momentum, jets and at least one hadronically decaying τ -lepton is presented. Gluino and squark pair production are considered, decaying via a cascade including either a τ slepton or a τ sneutrino. Three channels are considered, requiring either exactly one hadronically decaying τ -lepton with no other leptons, exactly one hadronically decaying τ -lepton and at least one other lepton, or two or more hadronically decaying τ -leptons. The three channels are independently optimised and then statistically combined. Two separate analysis strategies are pursued, namely cut-and-count and machine learning based. Results are based on $140 \text{ fb}^{-1} + 51.8 \text{ fb}^{-1}$ of data delivered by the Large Hadron Collider and recorded by the ATLAS detector during 2015--2018 at $\sqrt{s} = 13$ TeV and 2022--2023 at $\sqrt{s} = 13.6$ TeV, respectively. Gluino masses up to 2.25 TeV and squark masses up to 1.7 TeV are excluded.
Keywords	supersymmetry ; experimental results ; Gluino ; Squarks ; Tau-leptons ; Missing transverse momentum ; Jets
Related	



◉ ATLAS Collaboration Week (13-17 Ottobre 2025) a Paestum

- Deadline per iscrizione: 15 Settembre
- Quasi tutto completato
- Grosso sforzo per l'organizzazione
 - ◆ Interazioni con Hotel Ariston
 - ◆ Discussioni con ATLAS Secretariat & Management
 - ◆ Confronti con ditte di Trasporti e Gadget
 - ◆ Ringrazio Francesco Conventi e Elvira Rossi
 - ◆ Aiuto fondamentale!!
- Ci aspetta una settimana impegnativa ad Ottobre

◉ Chiusura preventivi 2026: 11 luglio!

◉ Elezione Resp. Naz. ATLAS Italia

- M. Corradi disponibile per secondo mandato

◉ Elezione ATLAS Muon PL

- P. Iengo disponibile per secondo mandato

◉ Stefano Giagu eletto nuovo presidente di CSN1



**ATLAS WEEK 2025
PAESTUM / ITALY**

13-17 OCTOBER 2025

A week of inspiring talks, lively discussions,
and stronger collaboration!

Reception & Poster Session

Plenary Talks
Physics Highlights,
Operations and Upgrades,
Collaboration Matters

Social Events
Explore, Connect, &
Enjoy Paestum

Early Career Scientists
get involved! Sign up
to give a lightning talk
(deadline 04/07/25)
or present a poster.

ATLAS week registration deadline: 15/09/25

