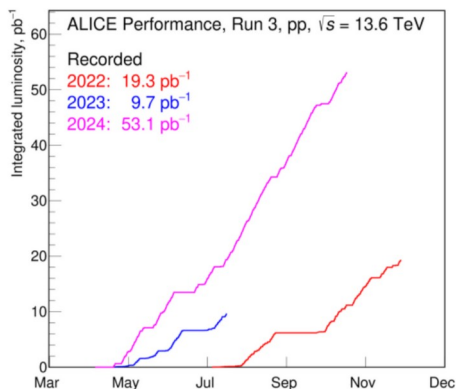


Stato del calcolo dell'esperimento ALICE

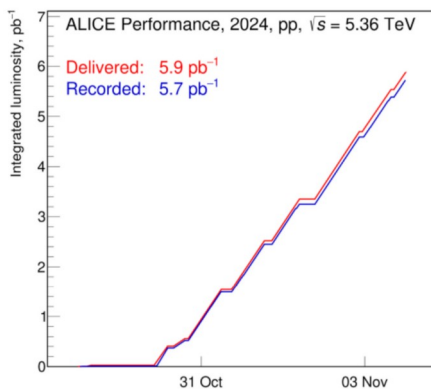
Mario Sitta – Univ. Piemonte Orientale & INFN Torino
Rosario Turrisi – INFN Padova

Data taking 2024



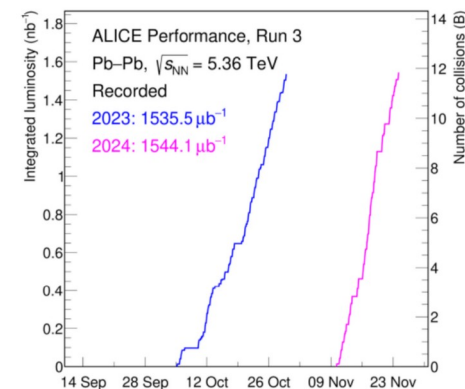
About 53 pb⁻¹ of pp @ 13.6 TeV

- Efficiency systematically > 90%
- The entire 2024 pp is skimmed at 4.5% level
- **204 PB reduced to 9 PB**



5.7 pb⁻¹ of pp ref run @ 5.36 TeV

- Efficiency > 96%
- **Reached the Run 3** luminosity goal: 1 MHz IR for 6 days
- 14 PB of MB events



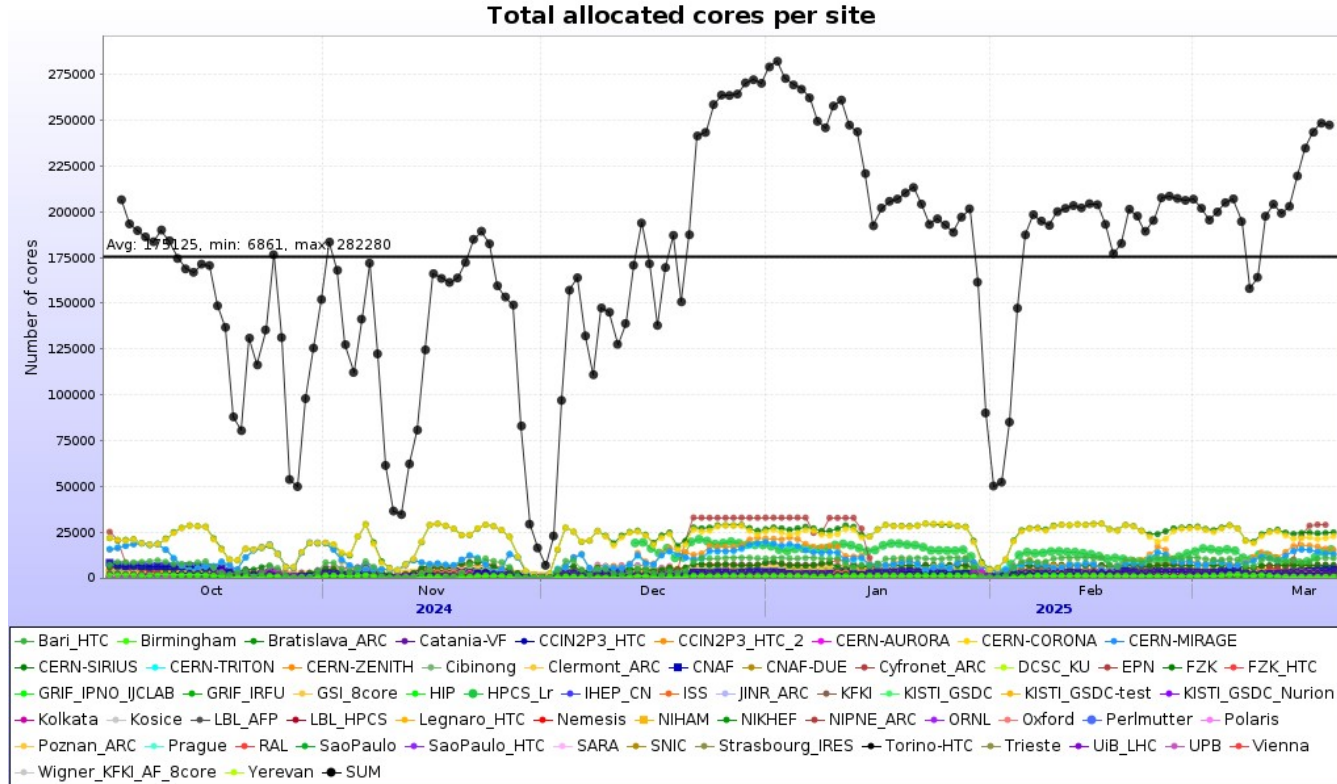
1.5 nb⁻¹ of Pb-Pb @ 5.36 TeV

- Excluding calibration runs efficiency systematically > 90%
- Remarkable stability @ **50 kHz**
- 39 PB recorded on disk

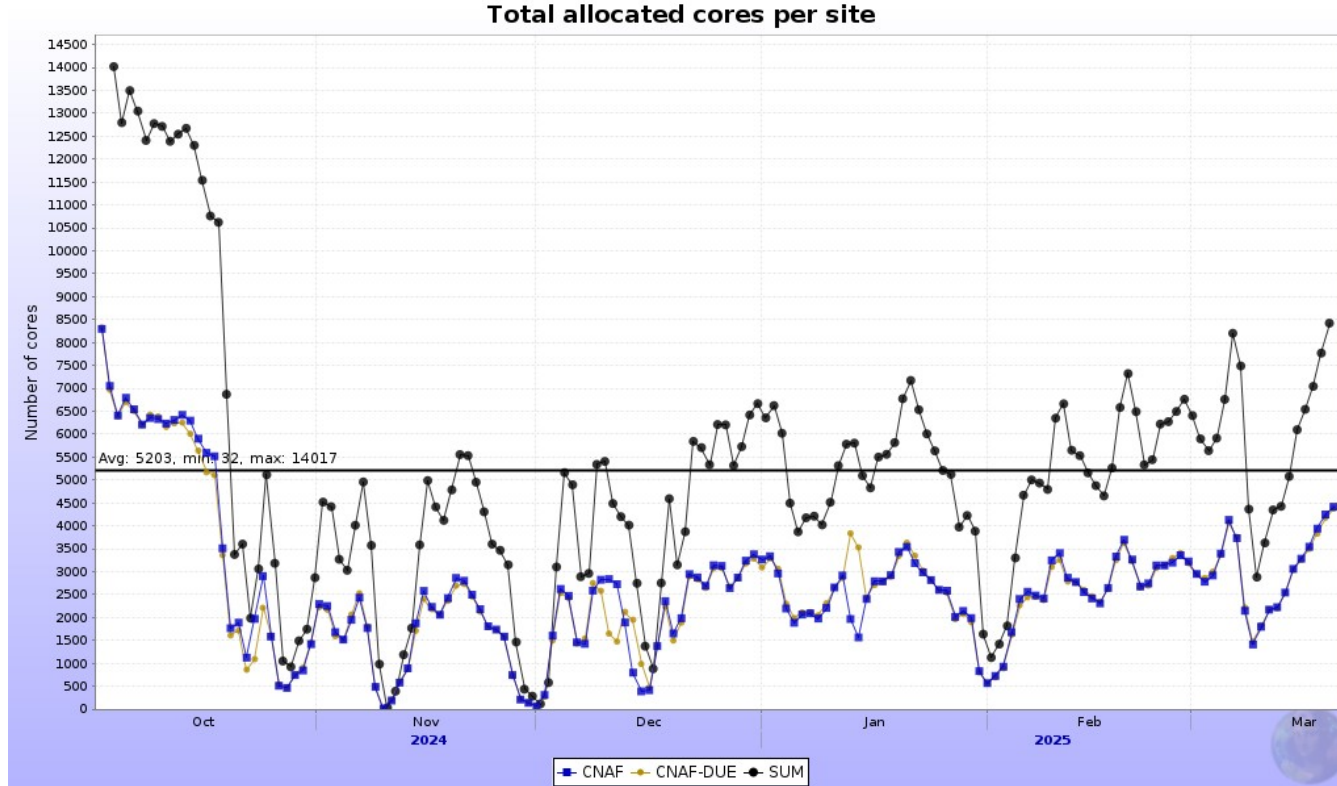
- Nuovi algoritmi per TPC (correzioni di common mode e noise suppression), maggiore file compression
 - da 3705 (nel 2023) a 3203 kB/event (−14%) in collisioni PbPb
- Migliore compressione degli AO2D (validati su dati reali) → event size −25% in media
 - da 380 a 290 kB/event per collisioni PbPb
 - da 7.7 a 5.8 kB/event per collisioni pp

- Da Dicembre
 - processamento asincrono dei dati PbPb
 - analisi dati per Quark Matter
 - simulazioni MonteCarlo (~ 1/2 della core allocation)

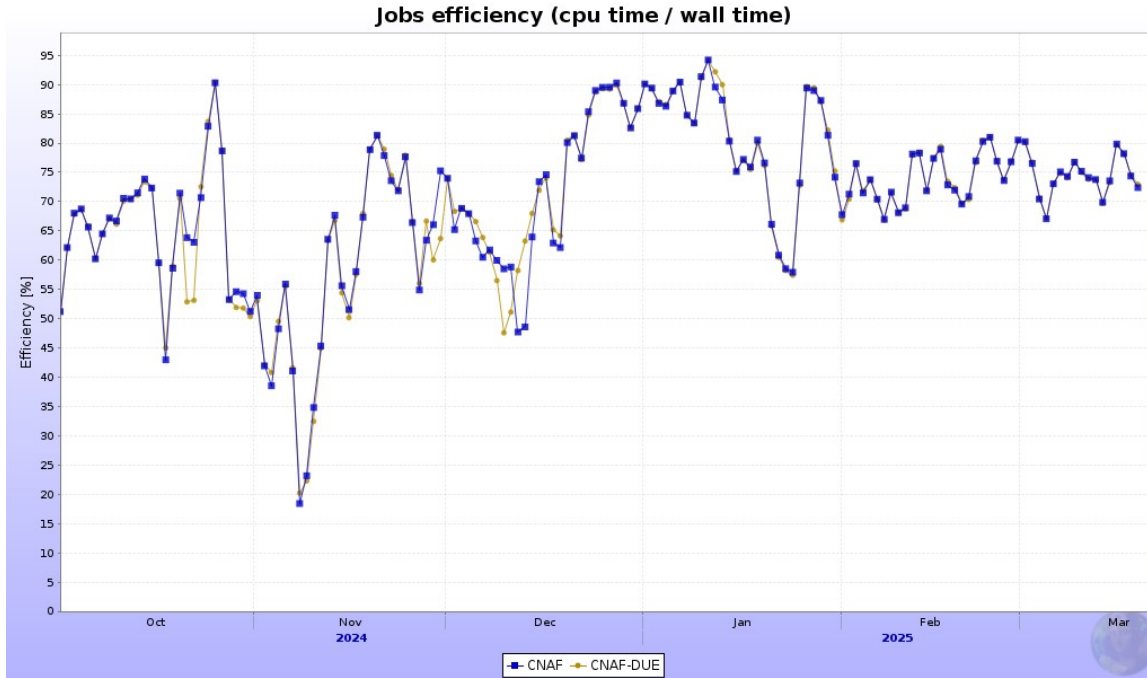
Uso delle risorse



Uso delle risorse al Tier-1



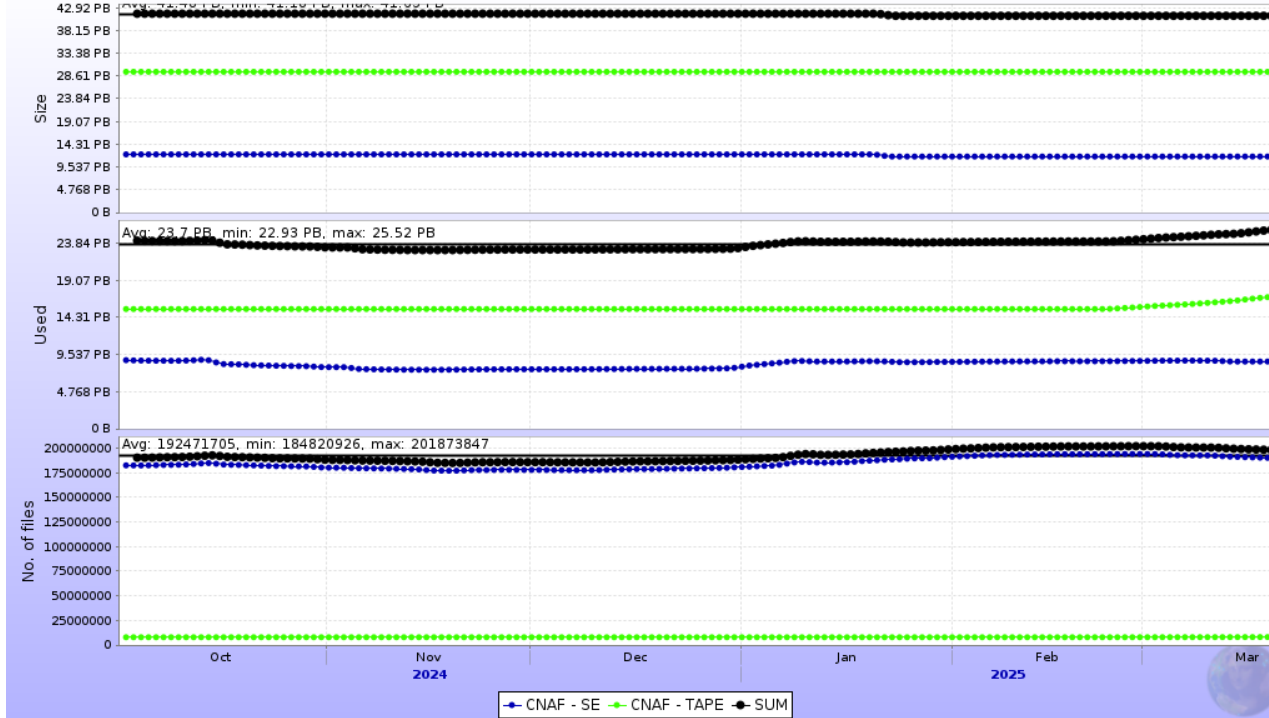
Uso delle risorse al Tier-1



	Series	Last value	Min	Avg
1.	■ CNAF	72.39	0.137	70.41
2.	■ CNAF-DUE	72.95	0.059	70.3
Total		72.67		70.36

Uso delle risorse al Tier-1

History of Storage Elements usage



Size

	Series	Last value	Min	Avg	Max
1.	CNAF - SE	11.72 PB	11.72 PB	12.02 PB	12.17 PB
2.	CNAF - TAPE	29.46 PB	29.46 PB	29.46 PB	29.46 PB
Total		41.18 PB		41.48 PB	

Used

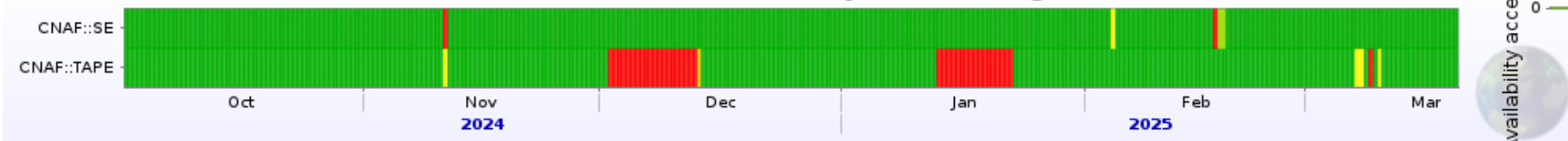
	Series	Last value	Min	Avg	Max
1.	CNAF - SE	8.629 PB	7.568 PB	8.24 PB	8.895 PB
2.	CNAF - TAPE	16.92 PB	15.37 PB	15.47 PB	16.98 PB
Total		25.55 PB		23.71 PB	

Number of files

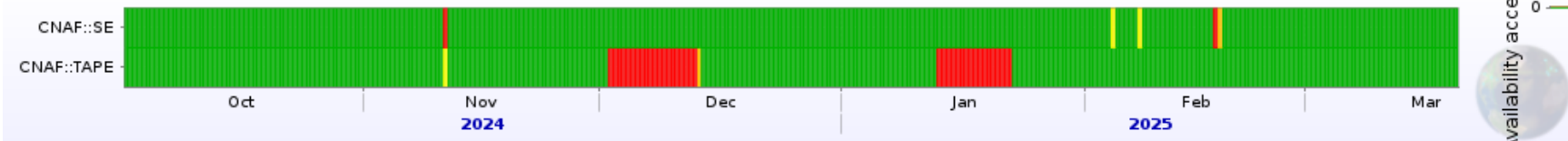
	Series	Last value	Min	Avg	Max
1.	CNAF - SE	189953076	176807950	184618498	194056140
2.	CNAF - TAPE	8063858	7860684	7874961	8070228
Total		198016935		192493459	

Uso delle risorse al Tier-1

AliEn SEs availability for reading



AliEn SEs availability for writing

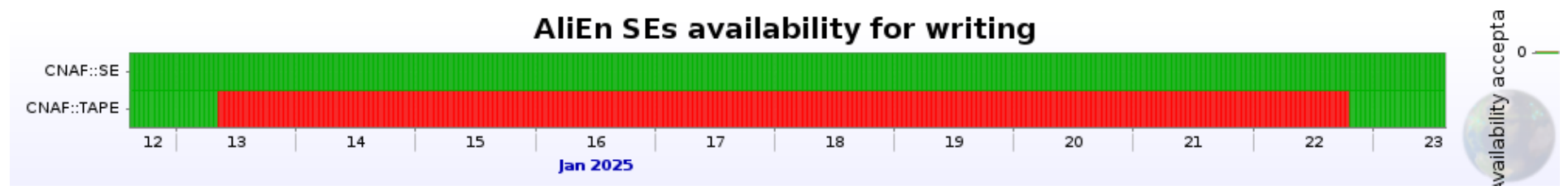
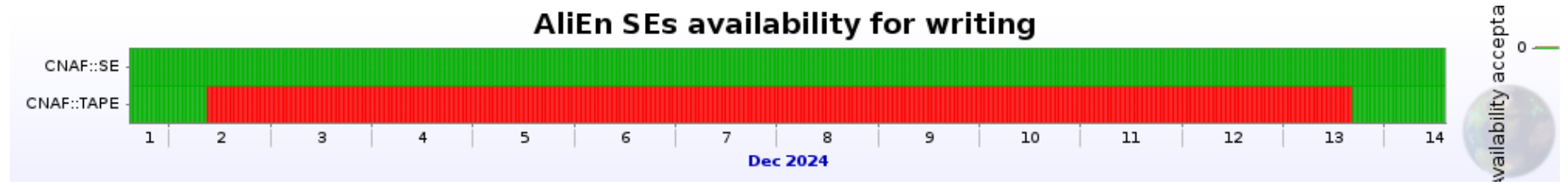


Trasferimento tape library al Tecnopolo



Trasferimento seconda tape library al Tecnopolo

Uso delle risorse al Tier-1



- Al RRB di Aprile approvazione delle richieste per il 2026
 - report al prossimo CdG
- Dal 1° luglio
 - Stefano Piano termina il suo mandato come Responsabile del Calcolo della Collaborazione
 - subentra l'attuale deputy Irakli Chakaberia (Berkeley)
 - nuovo deputy da nominare

BACKUP

Cores per job

