



ALICE plans for data transfer to tape during 2023 Pb-Pb run and after

Planned and achieved data rates

Centre	Target rate GB/s	Achieved rate GB/s
CNAF	0.8	2 (250%)
IN2P3	0.4	0.8 (200%)
KISTI	0.2	1 (500%)
GridKA	0.6	2 (300%)
NDGF	0.3	0.4 (133%)
NL-T1	0.1	0.9 (900%)
RRC-KI	0.4	0.53 (128%)
RAL	0.1	0.7 (700%)
<i>CERN</i>	<i>10</i>	<i>20 (200%)</i>

- **ALICE target rates remain unchanged**
- All rates tested and achieved during data challenges and subsequently in 2022/2023 (real data transfers)
- No data will be shipped to RU T1, all other T1s can and have pledged to absorb the difference

Target 2.5GB/s (T1s) + 10GB/s (T0)

Q&A

- How much data will ALICE take during the HI run?
 - Pb-Pb: 4 weeks - 93PB; 5 weeks - 116 PB
 - pp ref runs: 5 days - 12PB; 7 days - 16 PB
- At what point will this data be written to tape? Start date?
 - Start of Pb-Pb period, continuous up to the T0/T1s target rates
- What is the expected data rate to tape?
 - 10GB/s to CERN::CTA + 2.5GB/s to sum of T1s (see table)
- How long after the HI run ends before all data is written to tape?
 - 3-4 months
- Is there a need for recall activity while data is being archived?
 - No, as it will interfere with the writing to tape process
- The problem of failed transfers/potential data loss
 - The data will be split 70/30 (T0/T1s), one copy only