Summary of RUN Period 29

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Days allocated:	**62**
Days with beam:	**55**
People on shift:	$\approx$ **50**

Data overview

- **8328 tapes in total**
- **8047 with trigger T507110026:**
  $\geq$ **1 kaon, 2 clusters in PC0,** $\geq$ **2 primary tracks**
- **217 T1 tapes for minimum bias physics**
- **43 T305 for** $K_S K_S / K_S K_L$

Beam statistics

Spills:	≈ 850
Average beam rate:	$780 - 890\,\mathrm{kHz}$
$\Sigma\,\bar{p}$	$\approx 2.5 \cdot 10^{12}$
used $\bar{p}$	$44 - 52\%$

$\Longrightarrow$ see figures

Detector and trigger performance

$\Longrightarrow$ see figures

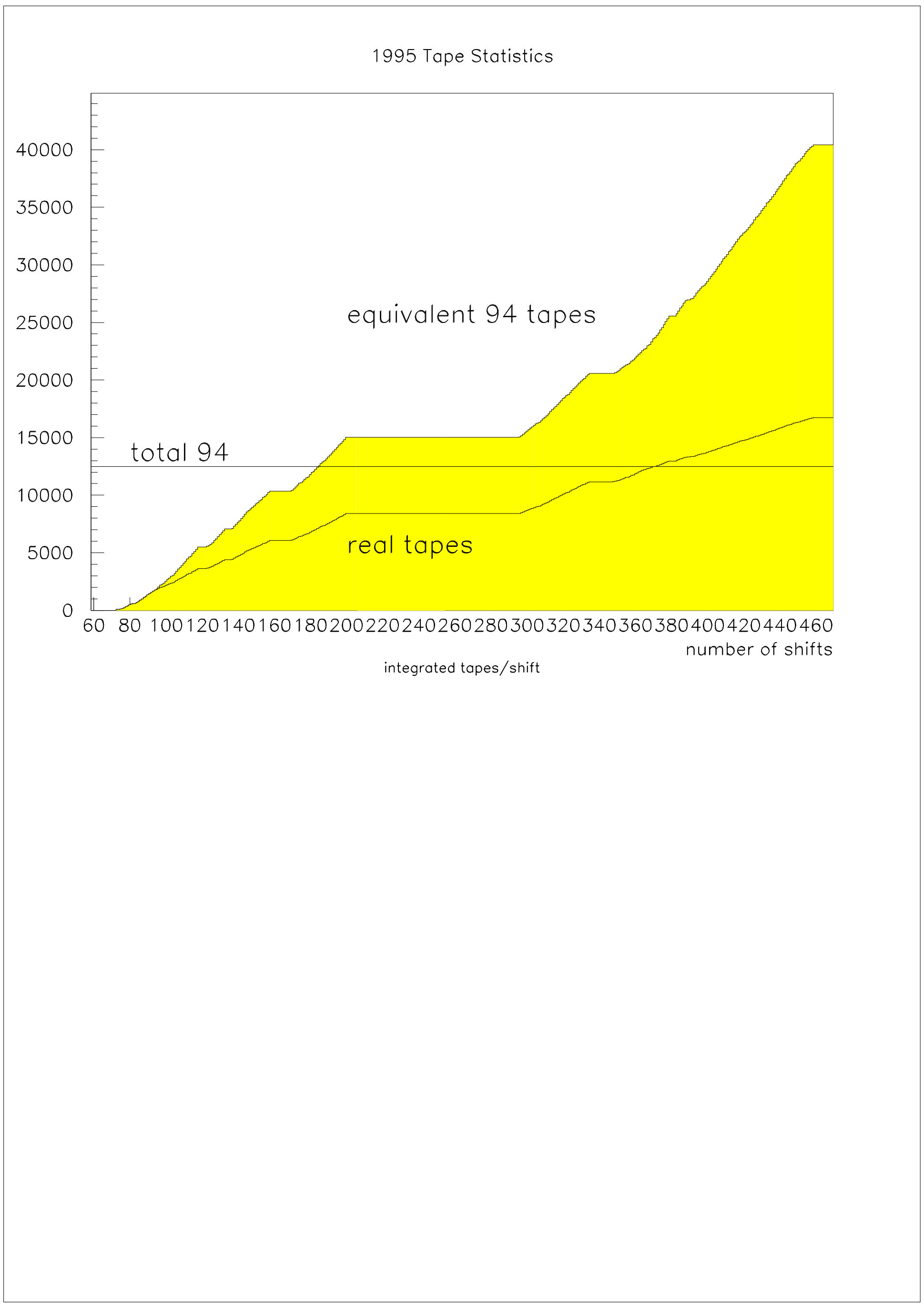
$\pi^+\pi^-$ candidates	$110 \cdot 10^6$
$\pi^o\pi^o$ candidates	$4 \cdot 10^6$
tapes/shift	51
maximum	101

Problems in P29

- LEAR vacuum leak in e-cooling section
  5 days no beam
- several power cuts, 2 days lost
- small leaks in DC gas rack
- Several trips of our magnet
- 5V power supply of trigger control crate
  delicate to change
- monitoring of CAEN crates
- STK and exabyte drives
- bad tapes

Conclusion

- stable beam most of the time
- stable detector and trigger performance
- most efficient run with respect to physics data
- Data of 1995 as much as all previous years together



Preparation for 1996: Regeneration Experiment

SETUP:

CPLEAR detector + 2cm thick graphite at 7cm radius, covering 120°

optional: thin scintillating fibres mounted on regenerator, could be used as veto counter

standard CPLEAR trigger, no $S\overline{C}S$ behind regenerator

NO calorimeter electronics

First result of a test with a regenerator:

(piece of copper equivalent of 2cm carbon, covering 120°)

normal currents in all chambers at 800 kHz $\overline{p}$

trigger rejection slightly reduced, 2100 $\searrow$ 1900

5 T1 and 24 full trigger tapes written

Work to be done:

- Design for installation of regenerator close to PC1
- Design for veto counter
- repair of DC gas rack
- New busy logic, EB software without calorimeter