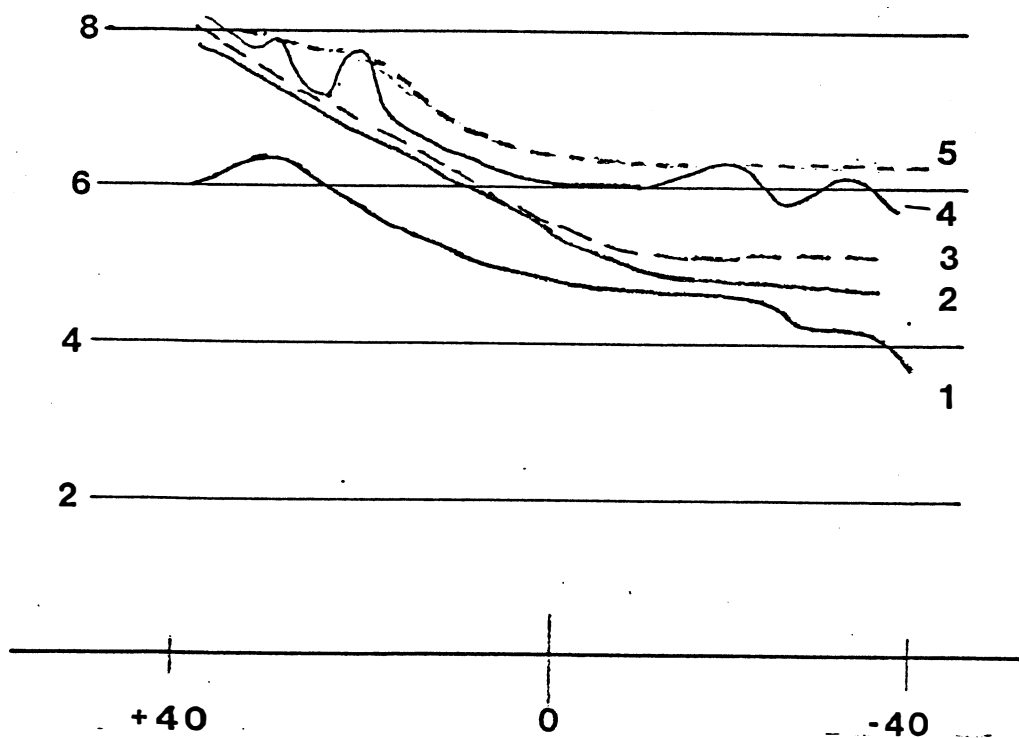


ISR PERFORMANCE REPORTMeasurements of beam blow-up as a function of momentum

During the whole of Run 1314, measurements of the beam height across the aperture of Ring 1 were taken, using the new BPM system. This system digitises one TV line of the Sodium Curtain Monitor, treats the readings and displays the results. Under microprocessor control, readings were taken across the aperture. The profiles are shown in Figure 1. Relevant parameters are given below.

Curve No. Amps	I <sub>1</sub> GeV/c	E <sub>1</sub> Amps	I <sub>2</sub> GeV/c	E <sub>2</sub> GeV/c	Average height across R1 aperture
1	37.8	26.9	0	-	5.8
2	35.3	31.4	0	-	6.4
3	same		38.8	26.5	6.5
4	same		34.9	31.5	7.0
5	same		same		7.3 *

\*After 39 hours Stable Beams



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