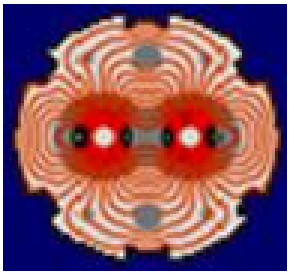

Contribution ID: **29** Type: **not specified**

Experience with the transfer line matching and options for improving the transfer line flexibility

Wednesday 19 January 2005 10:10 (10 minutes)

The matching sections at the SPS and LHC ends of TI8 were designed several years ago. The magnet positions and powering were optimised to match the constraints existing at that time.

For various reasons the boundary conditions at both the start and the end of the line have changed. Unfortunately, changes in dispersion cannot easily be absorbed, as the number of individually powered quadrupoles at large dispersion is small.

By powering the existing quadrupoles in a different way the matching sections can be made more flexible. Increasing the number of power converters may not be necessary.

The installation of skew quads to absorb the tilt mismatch at the end of the line is no longer envisaged.

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Session Classification: Session 5 - Other Issues affecting Beam Commissioning II

Track Classification: Other Issues affecting Beam Commissioning II