

# LONG WAVELENGTH TRACK ALIGNMENT POWER SPECTRAL DENSITIES

Alignment and curvature measurements made by the TRIM system on Lab 5 have been used to compute track alignment power spectral densities (PSD's) for wavelengths up to 2000m, computed over 20 mile long track sections.

The results are reported and compared with the currently used PSD of the whole ECML and also with PSD's of the design alignment obtained from the curve data in the mainline track data bank. This new information allows track spectra to be more realistically specified at long wavelengths.