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An estimation of vertical slow drift between Storage Ring and NANOSCOPIUM long beamline with HLS & beam diagnostics at Synchrotron SOLEIL

Hydrostatic Levelling system and beam diagnostics have revealed vertical slow drift between Storage Ring and the long beamline at SOLEIL. An Experimental hall air conditioning effect is even the origin of the SR slab deformation at the beamline source point. We analyse the situation with metrology tools as spatial differential processing of data, metrology loop, stability time constant and by applying the heat diffusion equation to a wall. Both HLS and beam diagnostics are compared into the tunnel. The perturbations are finally analysed through a simplified optics model of the beamline optics.

Summary

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