

Example: Wake fields in Astra

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Drift particle distribution 'test.ini' from $z = 1.9$ m to 2.1 m with wake at $z = 2.0$ m. The wake corresponds to the wake of a complete TESLA module, for details see:

1. Thomas Weiland, I. Zagorodnov - TEMF, TU Darmstadt
'The Short-Range Transverse Wake Function for TESLA Accelerating Structure'
http://flash.desy.de/reports_publications/tesla_reports/tesla_reports_2003/
2. M. Dohlus et al. 'Fast Particle Tracking with Wake Fields', DESY 12-012
<http://arxiv.org/abs/1201.5270>

MATLAB and "READ_ASTRA.m" may be used to produce plots as shown in "plots.pptx".