

MAD-X development

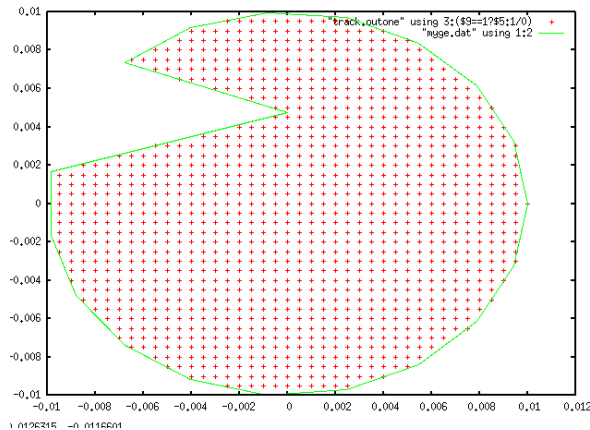
Additional radiation integrals

$I_{6z} = \int_0^{2\pi R} K_1^2 \beta_z ds$	energy loss in quadrupoles, nonlinear radiation damping
$I_8 = \int_0^{2\pi R} K_1^2 \eta^2 ds$	damping partition number variation

RF-fringe fields implemented

Tapering has been implemented

Arbitrary aperture which can also be changed dynamically turn-by-turn



Green line shows the defined aperture and the red crosses show the surviving particles

Permanent offsets and rotations of elements

