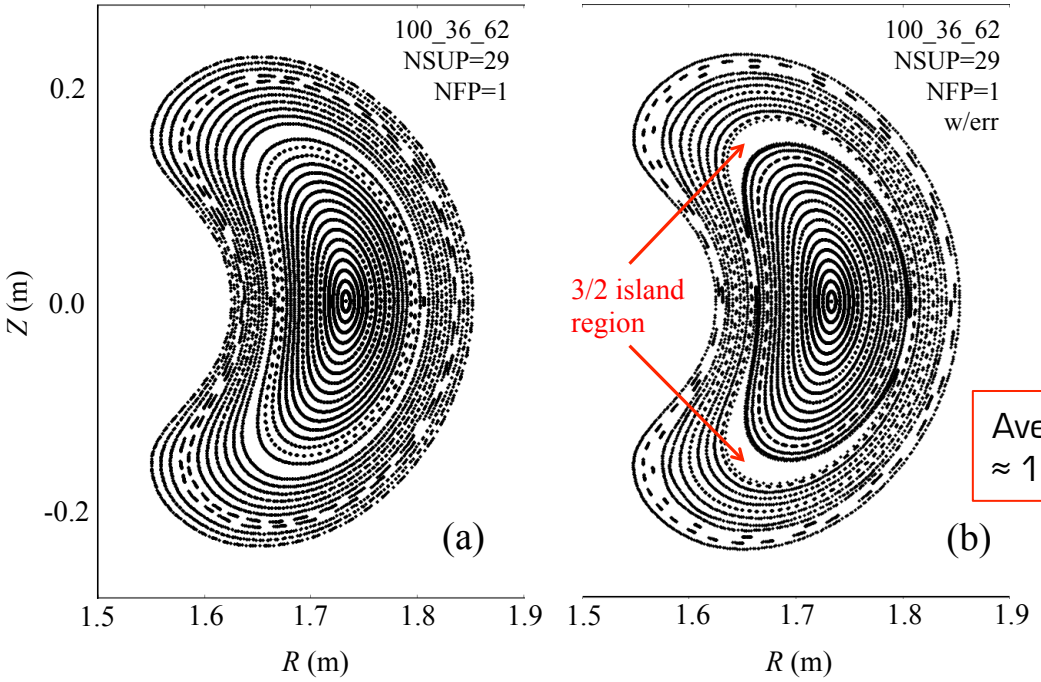
Summary slide for contribution TH/P6-12:

"Flux-surface averaged radial transport in toroidal plasmas with magnetic islands"

Poincaré sections of TJ-II (Heliac-type stellarator) vacuum magnetic configurations: (a) without error fields, n=3/m=2 value of the rotational transform around mid-plasma radius. (b) The same with ~ 0.03% error field



Average width ≈ 1,7 cm

Diagonal "radial" metric coefficients calculated numerically on the perturbed configuration above, and same values obtained after applying the proposed annular model on the unperturbed configuration to obtain the new metric coefficients after imposing an island of average width ≈ 1,7 cm. The model is used to perform 1-D transport on configurations with magnetic islands.