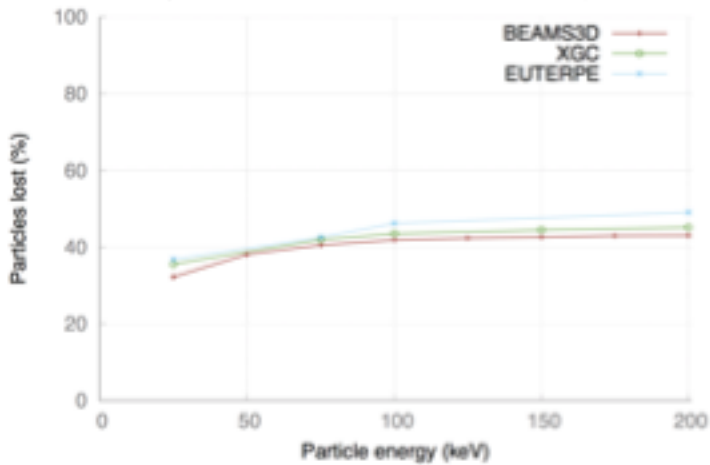


Confinement in stellarators with the global GK code XGC

Energetic particle loss proportion at $t = 0.05s$, initial $\rho = 0.125$



Left: XGC stellarator version successfully benchmarked for energetic particle orbit tracing with BEAMS3D, EUTERPE codes (Wendelstein 7-X)

Below right: Calculated electrostatic ITG growth rates in the Wendelstein 7-X stellarator for a reference case. *Left:* ITG mode structure ($\delta\phi$) in triangle-shaped stellarator segment.

Below: Successful benchmark of (right) XGC stellarator version for ITG case in tokamak.

