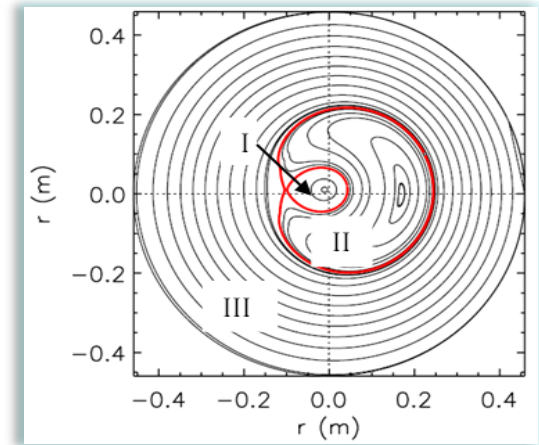


Islands have an essential impact on the evolution of fusion plasma confinement.

1.5D transport codes, such as ASTRA or JETTO, cannot be used in plasmas with islands, since their domain must be described by a single monotonic radial coordinate. **We present a method applicable to tokamak, stellarator and RFP, to overcome such problem**

The plasma is divided in three domains, where a monotonic coordinate exists:

- I) plasma core
- II) island
- III) outer plasma



Transport equations are solved separately in the different domains, which dialogue through the **island separatrix**

The method, presently implemented in the home-made code MAXS, can be easily implemented in whatever 1.5D transport code

In the paper we present some 'proof of principle' simulations obtained in RFX-mod, LHD and TJ-II devices