

A TRAVELLING WAVE ARRAY SYSTEM AS SOLUTION FOR THE ICRF HEATING OF DEMO

Travelling Wave Arrays are a promising ICRF system for DEMO:

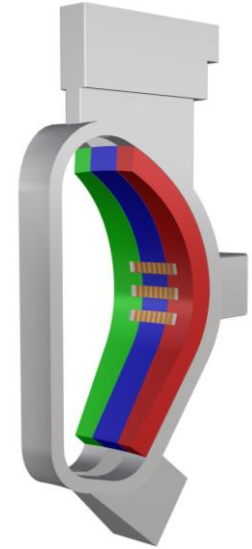
- Allow maximizing power coupling
- Reduce the power density
- Reduce associated electric fields and voltage
- Increase the reliability of the system using independent sections

Different layout possible to accommodate reactor requirements regarding:

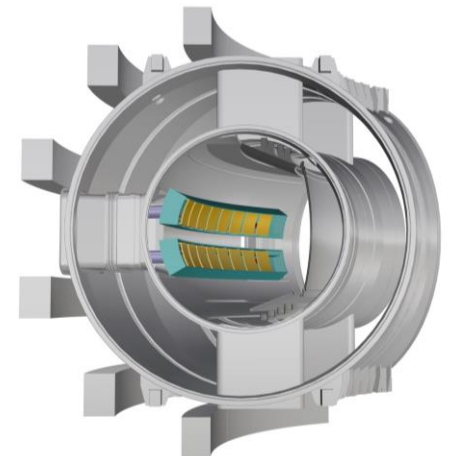
- Integration in blanket
- RAMI scoring
- Power requirements

Tests on MSTs are required and in preparation:

- WEST
- T-15MD



Possible layout for DEMO



Possible layout for WEST