EX/P5-23: Extended scenarios opened by the upgrades of the RFX-mod experiment

RFX-mod can be operated both as a RFP and as a Tokamak

**Device upgrades proposed in order to:**

Improve studies of **MHD control** and **3D PHYSICS** through more robust and persistent **higher confinement regimes**:

- **RFP** Helical states
  - Transport barriers in high current & density regimes

- **Tokamak** H-mode
  - ELMs and runaway electron control by magnetic perturbation

**maximize plasma-shell proximity to reduce error field and magnetic chaos**

![Graph](image)

**Optimise shape control by increasing poloidal magnetic sensors**

**Apply NBI**