Kinetic properties of edge plasma with 3D magnetic perturbations in RFX-mod

**Background:** magnetic perturbations modify the kinetic properties of the edge plasma.

**Results:**
- Detailed 3D kinetic response of the plasma with magnetic perturbations (MP) is studied.
- When a monochromatic MP is applied, the magnetic connection length to the wall $L_{cw}$ shows a rich poloidal structure.
- Edge electron pressure and floating potential follow the behaviour of the connection length.

**Perspectives:** clarifying the interaction between plasma and MPs will help to understand the interaction mechanisms between MP and ELM suppression.