

Liquid Metal Limiters

- Liquid **tin** limiter used for the first time in a tokamak: plasma performances unaffected for tin surface temperatures below the evaporation onset (**1500 °C**), with heat loads up to **18 MW/m²**.
- Liquid Metal divertor concept design, **CPS-based** (WP-DTT1-LMD).

Runaway electrons

- Complete Runaway Electron loss induced by **multiple pellet injection** on flat-top current pulses.
- Emission of **radio waves** (whistler/magnetized plasma waves) in pulses with significant RE signatures.
- **Tearing modes stabilization** by **ECH** with a “sweeping” strategy and by **pellet injection**.
- **EC assisted start-up** in presence of **Ne impurity** to mimic post disruption condition.
- **High resolution spectroscopy** of heavy metal ions (**Sn, W, Y**).
- **Density peaking** in **Helium doped plasmas**.
- **Diagnostics**: Laser Induced Breakdown Spectroscopy
Runaway Electron Imaging Spectrometry
UV and SXR diamond detectors

