## Summary slide for paper EX/P5-12

J.Ongena et al. "Physics and application of ICRH at W7-X

- An ICRH antenna system is under construction for W7-X.
  It can deliver pulses of up to 10s for frequencies between
  25-38 MHz at power levels of 1-2MW, depending on the coupling.
- Main aim is to produce fast particles (>100keV) needed to verify the confinement properties of the optimized stellarator W7-X at high densities above 10<sup>20</sup>m<sup>-3</sup>.
- Main ICRH scenario planned for use in W7-X is the three-ion heating scenario. This newly developed scenario is recently tested on JET (see OV-1.) and Alcator C-Mod (see )
- The ICRH antenna at W7-X can also be used for wall conditioning (ICWC), plasma startup, plasma heating and current drive.