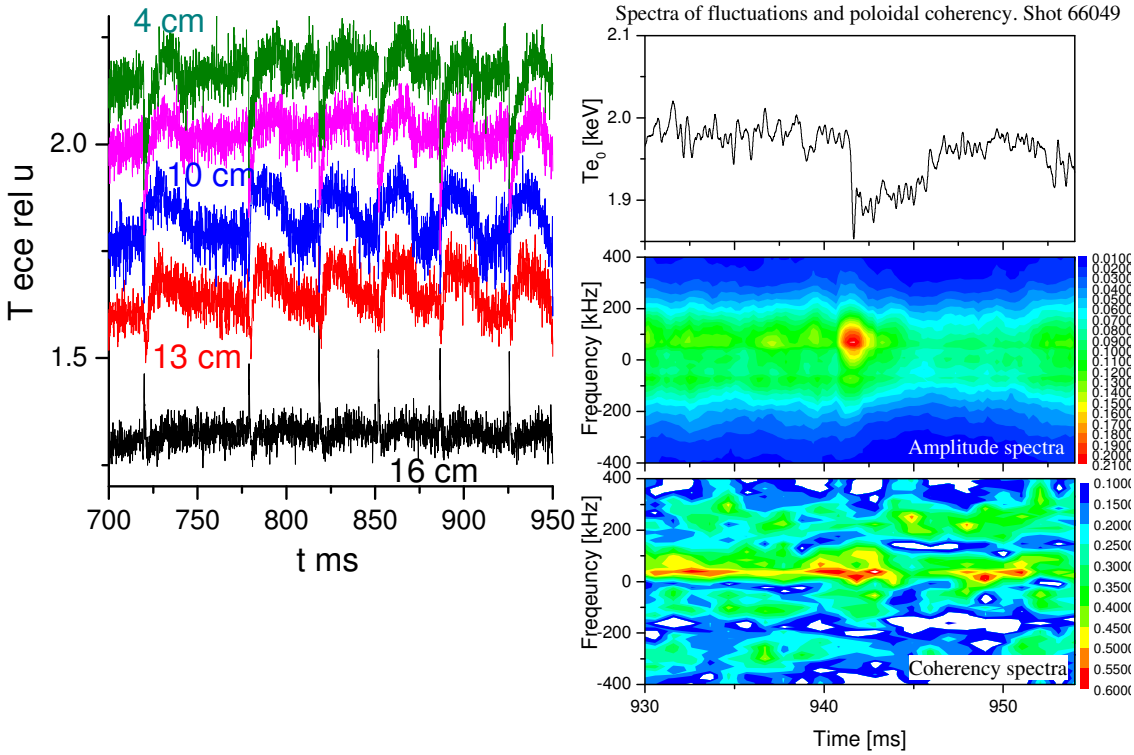
A new type of ITB created by sawteeth oscillations with long period (almost damped by off-axis ECRH/ECCD near q=1) has been found



A sawteeth crash causes the rise of T_e and n_e outside inversion radius r_s. The reflectometer data shows enhanced level of the turbulence during 1-2 ms after the crash (at frequency 40-120 kHz) outside r_s. T_e and n_e decays fast.

Later, at ITB formation slightly outside q=1 surface, the turbulence level falls slightly below its pre-crash value and the spectrum of the turbulence shrinks. The density stops to decay, T_e rises inside r/a=0.45 to a new steady-state and the heat pulse does not propagate outside during 15-20 ms. The value of χ_e becomes 2.5 times lower compared with the L-mode scaling.