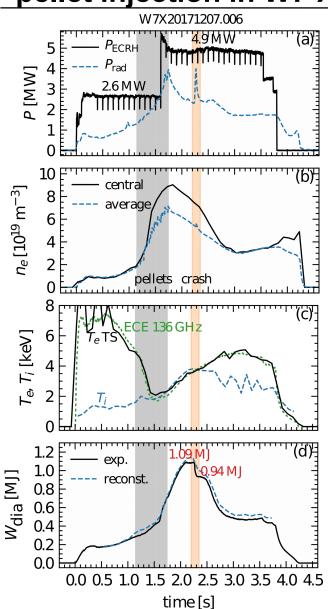
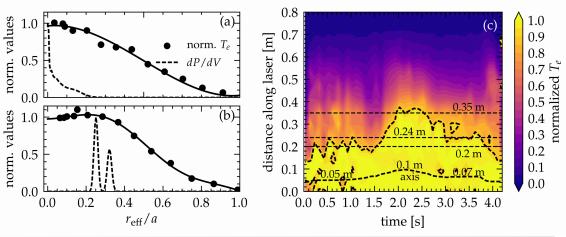
## High density and high performance operation with pellet injection in W7-X



- two types of pellet injection experiments:
  (i) improved confinement and beta; (ii) high density > 1.2\*10<sup>20</sup> m<sup>-3</sup> (X2 cut-off)
- achieved: Ti about 3.5 keV, confinement time about 0.22 s, at n about 0.8\*10<sup>20</sup> m<sup>-3</sup>
- Te profile broadening due to diamagnetic shift of the ECRH deposition
- significant neoclassical ion heat flux in the improved phase, about 40% of the heating



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