

What has the fusion community achieved over the past two years?

- 102s Long pulse H-mode discharges have been successfully achieved in EAST with ITER-like tungsten divertor, which demonstrates good compatibility of high-Z PFCs with the plasma performance in long pulse operation.
- A beneficial role on the LHW injection to control the tungsten concentration in the NBI discharge is observed for the first time in EAST

Where does fusion R&D stand right now?

Which critical issues, next steps and/or major challenges definitely need focused attention in the immediate future or medium term in order to ensure avoiding gaps or unnecessary delays/surprises on the way towards the final goal?

- Tungsten is used in ITER divertor and is planned to be used in future fusion reactors, therefore control of the tungsten accumulation is one of crucial subjects to sustain steady-state high performance H-mode operation.
- Development of Tungsten impurity diagnostic and understanding of tungsten transport is very important in this subject.