

NBI performance for long pulse operation in KSTAR

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Neutral beam injector is one of the essential devices for KSTAR long pulse operation. It contributes to sustain the non-inductive plasma current in long pulse tokamak operation as well as to obtain the high ion temperature operation mode in KSTAR. In a viewpoint of long pulse superconducting tokamak, it has been playing a very challenging pioneering work for future tokamak reactor since its first operation in 2008. In this talk, KSTAR NBI performances are discussed in terms of beam power stability in long operation, beam species and divergence on the plasma performances, and dependence on low and high Z PFC wall.

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