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Progress of EAST Neutral Beam Injection System

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The neutral beam injection system of EAST (EAST-NBIS) consists of two sets of neutral beam injectors (namely EAST-NBI-1 and EAST-NBI-2). Each of them has two ion sources which can operate independently. The assembly of EAST-NBI-2 accomplished in April 2015 after finishing the assembly of EAST-NBI-1 in 2013. The two injectors attended EAST experiment campaign of 2015 and are attending EAST experiment campaign of 2016. Different neutral beam injection modes have been carrying out. Optimizations for two injectors are carrying out towards higher stability and reliability under long pulse high power beam extraction. This presentation will mainly describe:(1)the results obtained from annual experiment of the latest three years;(2)the results related to specific optimization;(3) the plan of optimization for EAST-NBIS to be carried out in the near future.

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