物理

EAST上快波电流驱动的数值模拟

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针对EAST全超导托卡马克的参数,利用射线追踪法在离子回旋共振频段(ICRF)发射机的工作频 本文信息 摘要 段内进行快波电流驱动的数值模拟,找到了一组适合于快波电流驱动的参数。模拟结果表明,发射频率只要 避开基频吸收和二次谐频吸收,电流驱动的效果就很明显。

快波 电流驱动 频率 EAST 关键词

分类号

Simulation of Fast Wave Current Drive on EAST

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Abstract By using ray-tracing method and EAST parameters, fast wave current drive was si mulated in the frequency regime of ICRF transmitter, and a set of parameters suitable for fas t wave current drive was found. The results show that as long as the transmission frequency i s chosen to avoid the absorption on the first and second harmonics, the current drive efficienc y will be improved.

Key words fast wave current drive frequency EAST

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