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Toroidal Momentum Transport and Intrinsic Rotation in Tokamaks

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Shared rotation is well-known to reduce turbulence and improve confinement [1]. It can also stabilize large scale MHD instabilities including resistive wall mode. Therefore predicting rotation profiles in ITER is an important issue. In this presentation, recent progress in toroidal momentum transport and intrinsic rotation research in tokamaks from theory and experiments will be discussed and remaining outstanding issues will be identified.

[1] P.H. Diamond, S.-I. Itoh, K. Itoh and T.S. Hahm, Plasma Phys. Control. Fusion, 47, R35 (2005)