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Toroidal Rotation in ECH and Ohmic H-modes in DIII-D¹ J.S. DEGRASSIE, D.R. BAKER, K.H. BURRELL, DIII-D TEAM, General Atomics — Radial profile measurements of toroidal and poloidal rotation have been made in H-mode discharges in DIII-D with no applied torque from the heating sources. With Ohmic heating the core toroidal rotation is in the direction of the plasma current (ω) while with off axis Electron Cyclotron Heating (ECH) it is in the counter direction. The magnitude of the toroidal rotation is 10-20 km/s for the parameters of this experiment. Neutral beam (NB) “blips” are used for the rotation measurement and only the initial NB injection data are found nonperturbing with respect to rotation. The temporal evolution of the rotation measurements will be presented together with the result for two values of the plasma current in the ECH case. The force-balance computed radial electric field will also be presented.

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Prefer Oral Session
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