Simulations indicate that 0.5 GHz helicon waves will produce large non-inductive current at $\rho=0.6$
- Confirmed by both ray-tracing (GENRAY) and full-wave (AORSA) calculations
- Factor of 2 higher current drive efficiency than other means

Experimental confirmation would provide new path for off-axis current drive in reactors

Experiments on DIII-D using a ‘comb-line’ traveling wave antenna to launch helicon waves will commence next year