

# DIII-D Demonstrated Good Helicon Coupling in High-Performance Discharge With Full Single-Pass Absorption

- Helicon waves (fast wave in the Lower Hybrid Range of Frequencies) can efficiently drive current in the mid-radius of reactors
- DIII-D showed that the wave can be launched efficiently with a Traveling Wave Antenna of the comb-line type

✓ High-power experiments (~ 1 MW) with 30-element antenna are planned



Traveling Wave Antenna in DIII-D

Coupling good (below red line) for whole shot

