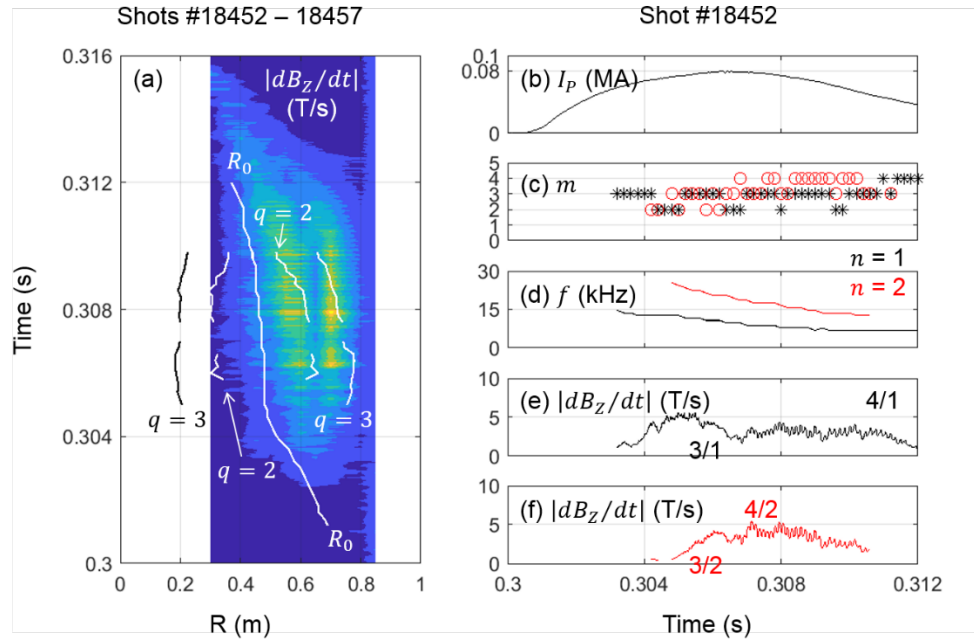
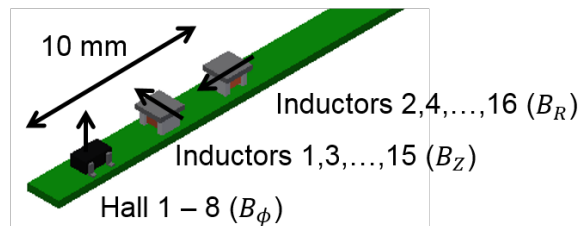


Internal Structure of MHD Fluctuations for Various Current Density Profiles during Current Rise Phase of Ohmic Discharge in VEST

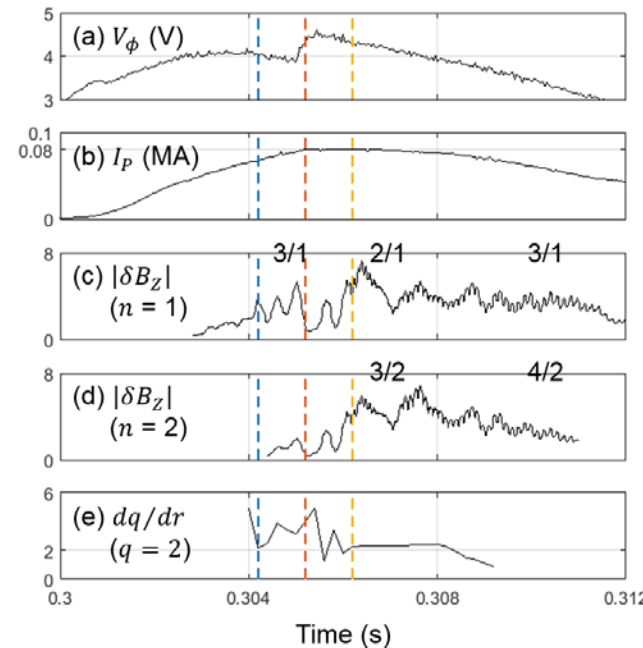


Sensor group



8 sensor groups 50 mm apart (Covers 350 mm)

- Internal magnetic probe array used
- Tearing mode structure measured directly
- Mode behavior discussed with classical tearing mode theory



- Form varying current density profile
 - Second current rise at 0.305 s (C3 phase)
- Tearing mode relation to dq/dr
 - Mode 3/1 suppressed 0.304 – 0.305 s
 - Mode 2/1 onset 0.305 – 0.306 s
 - Coincides with dq/dr drop at $q = 2$ surface

