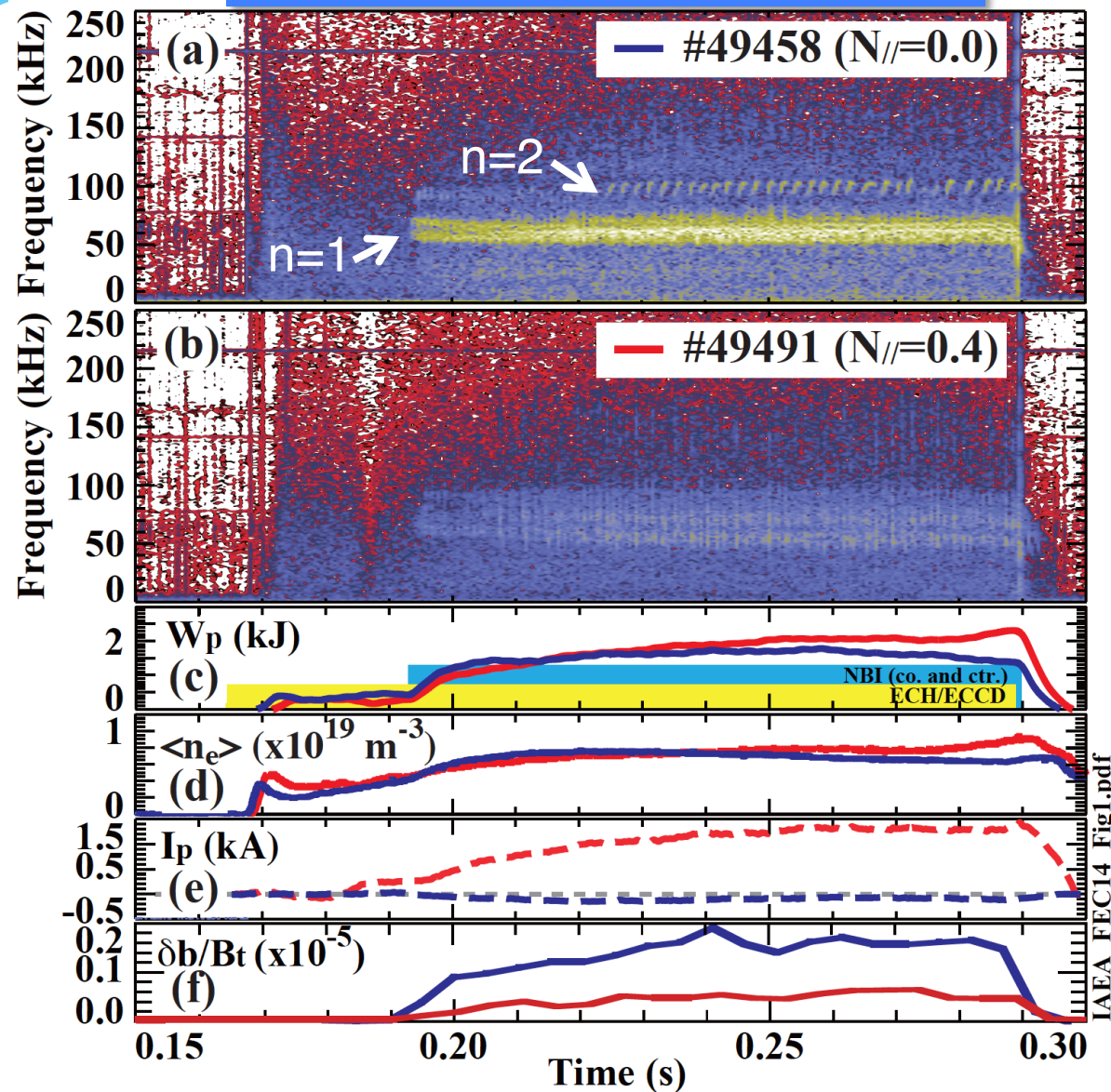


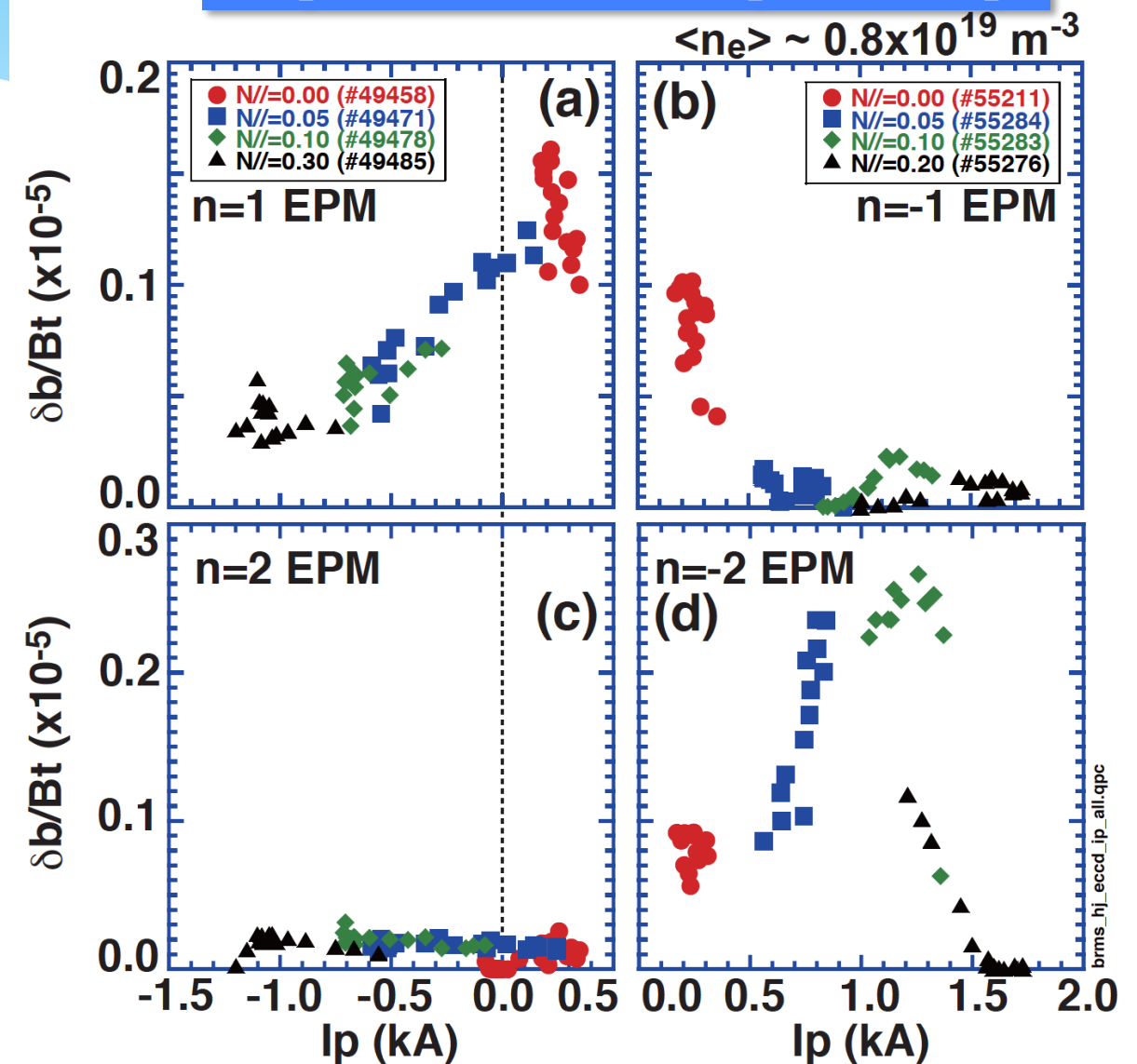


Control of fast ion driven EPMs by ECCD

EC driven I_p mitigates EPMs



Dependence of EPMs amplitude on I_p



- ✓ **Energetic particle modes (EPMs)** which could induce fast ion loss are observed in NBI-heated Heliotron J plasmas.
- ✓ **Continuum damping** whose rate relates to **magnetic shear** is main damping mechanism of EPM
- ✓ **We demonstrated EPMs could be controlled by means of magnetic shear induced by EC driven plasma current.**