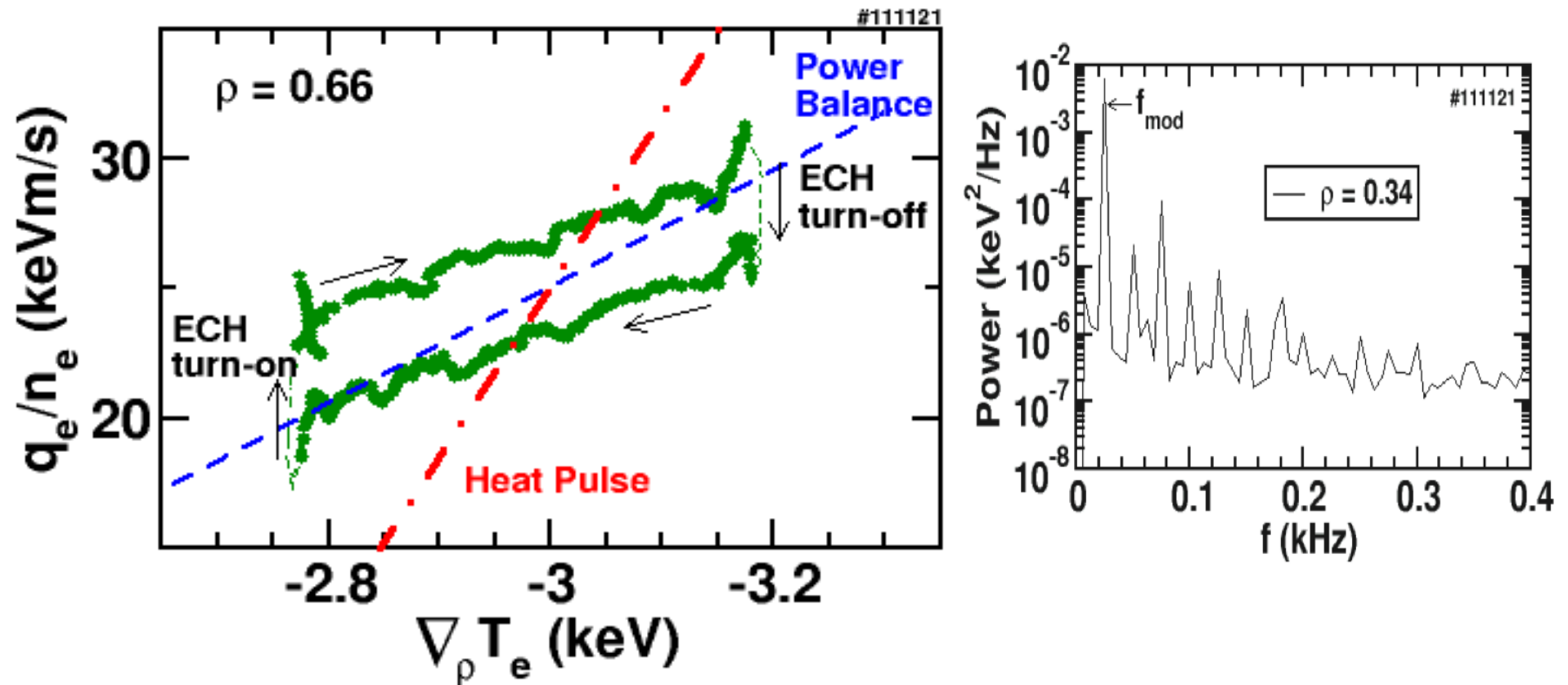


## Dynamic Method to Study Turbulence and Turbulence Transport

- The discovery of a hysteresis in the flux–gradient relation resolved this long-standing mystery of the difference between  $\chi_{pb}$  and  $\chi_{hp}$
- The hysteresis in gradient-flux relation should appear in the response of extremely-higher harmonics of heat pulse propagation



Qualitative differences of transport picture has a critical impact on the predictive capability of temporal evolution of future burning plasmas