Effects of multiscale interaction btw an m/n=2/1 magnetic island and turbulence on the electron heat transport

- Spatial distribution of turbulence is modified by the sheared flow generated by the magnetic island
  - Turbulence suppressed towards the O-point direction and distant from X-point → the island plays like a barrier

- Minor disruption or the profile peaking can occur due to the strong turbulence outside the magnetic island

\[ v_{pt} \approx v_{E\times B} + v_{ph} \]

\[ \frac{\delta T_e}{\langle T_e \rangle} \text{ image} \]

\[ \text{Turbulence touches X-point} \rightarrow \text{minor disruption} \]