

# RESISTIVE MHD STABILITY THEORY

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MHD activity and, in particular, magnetic island such as neoclassical tearing modes (NTMs) are events which can trigger disruptions. To avoid disruptions, it is developed advanced scenario with the aim to optimize the performance under the constraint that large disruptive  $2/1$  and  $3/2$  NTMs must be avoided.

In this lecture, the basic mechanisms at the origin of magnetic islands will be discuss.