## A new branch of EGAM

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An branch with

(A new branch of geodesic acoustic modes driven by fast ions)

 $\omega \sim \omega_D$  (magnetic drift frequency of EP) is found in the family of EGAM. This branch is destabilized by the resonance,  $\omega - \omega_D \sin \theta = 0$ .

Poloidal eigenfunction has bumps and phase shift around the resonance locations

This branch contributes to ion heating and to driving the toroidal rotation.

