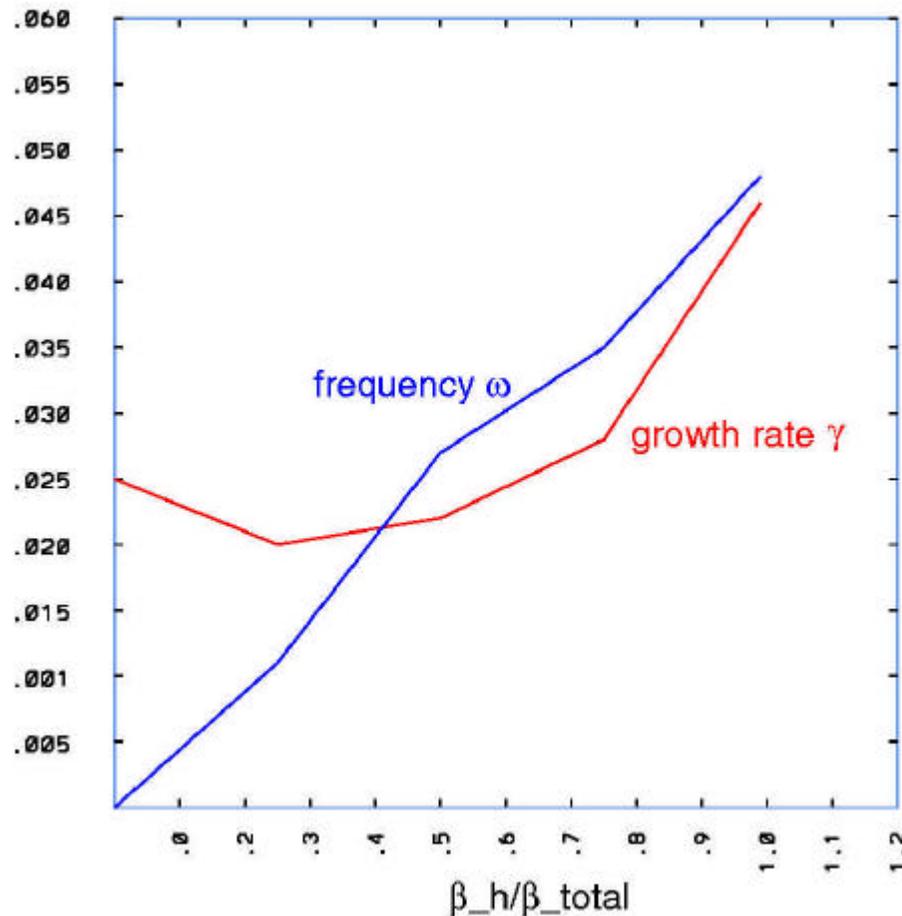


Hot Particle-induced Fishbone Instability: CEMM Hot Particle Benchmark case



circular tokamak $R/a=2.76$

$q(0)=0.6$, $q(a)=2.4$

$\beta_{total}(0) = 8\%$

Constant density

$v_h/v_A = 1.0$, $\rho_h/a=0.05$

Isotropic slowing-down

hot particle distribution

Mode Structure: Ideal Kink v.s. Fishbone

