Got new simulations

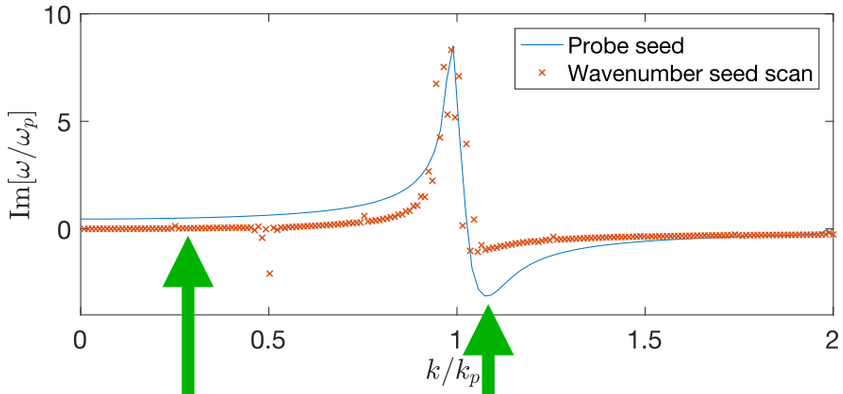
Mariana M. (Jorge V.)

TÉCNICO LISBOA

In the last episode

Growth rate versus wavenumber for pure hosing

Measured with an exponential fit of an FFT histogram of the centroid



k = 0.3 k_p

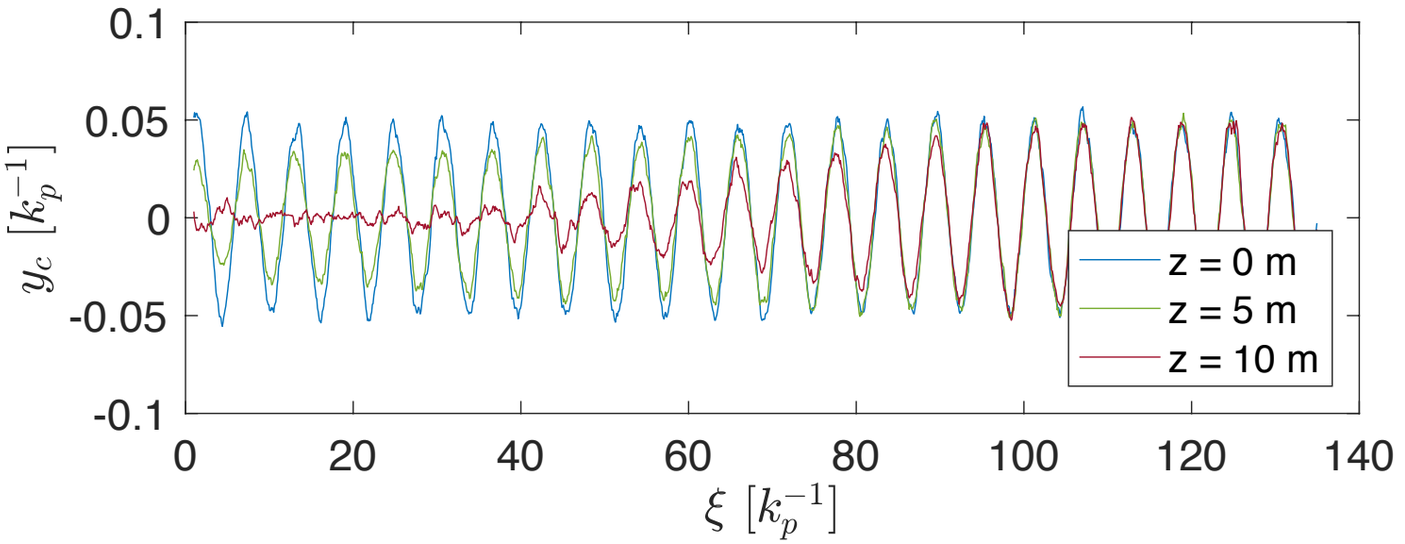
k = 1.07 k_p

simulations

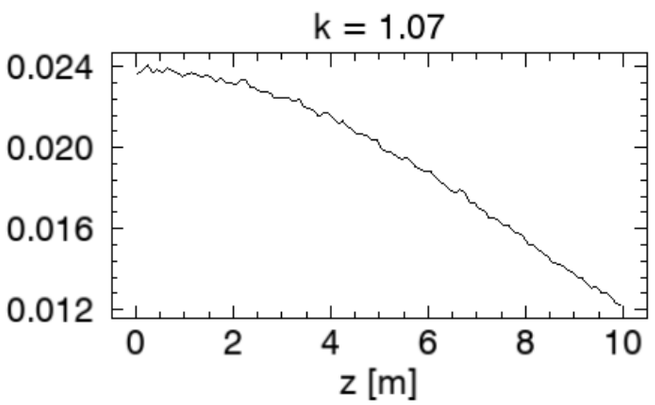
Too soon to get excited

- long-wavelength simulation (k = 0.3): ***boring***
- "damping" simulation (k = 1.07): **this** ↴

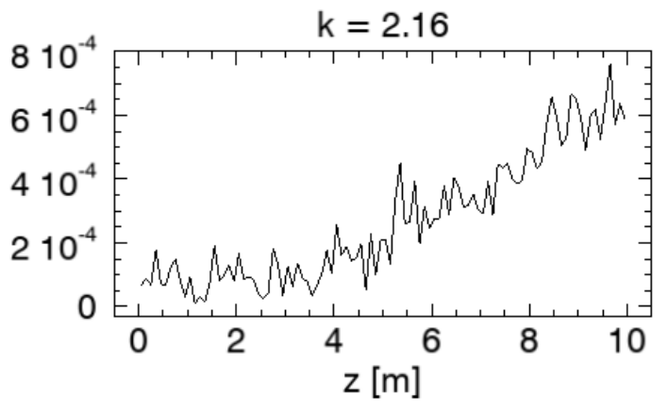
Beam centroid



|FFT| of centroid along plasma



|FFT| of radius along plasma



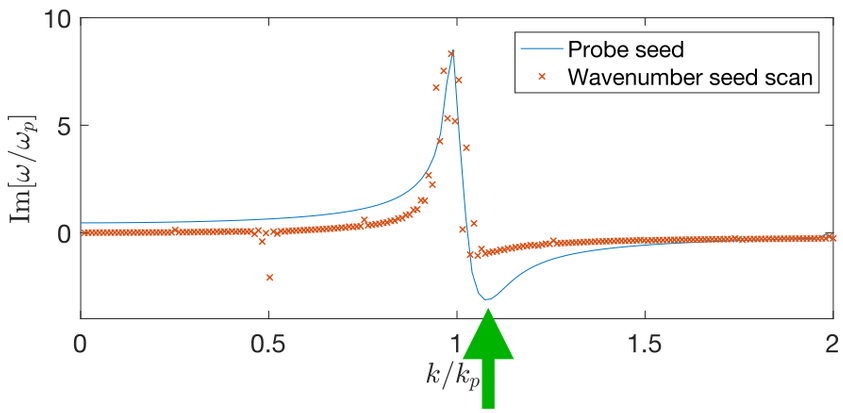
How to split a beam in half

Mariana M. (Jorge V.)

TÉCNICO LISBOA

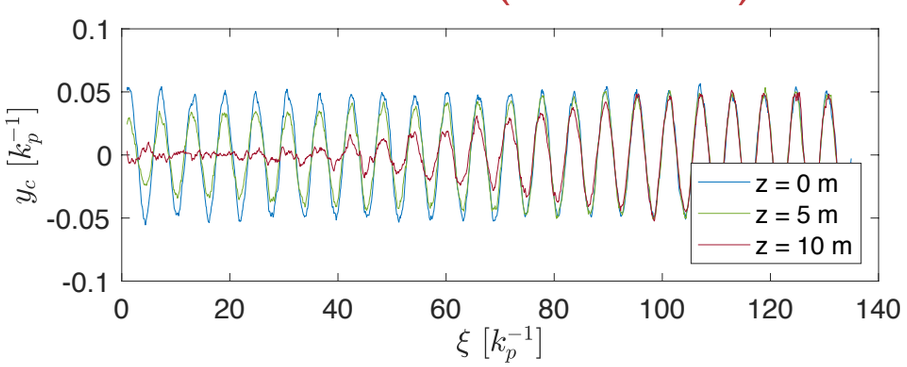
Recap

Is there a *k* where hosing dampens itself?

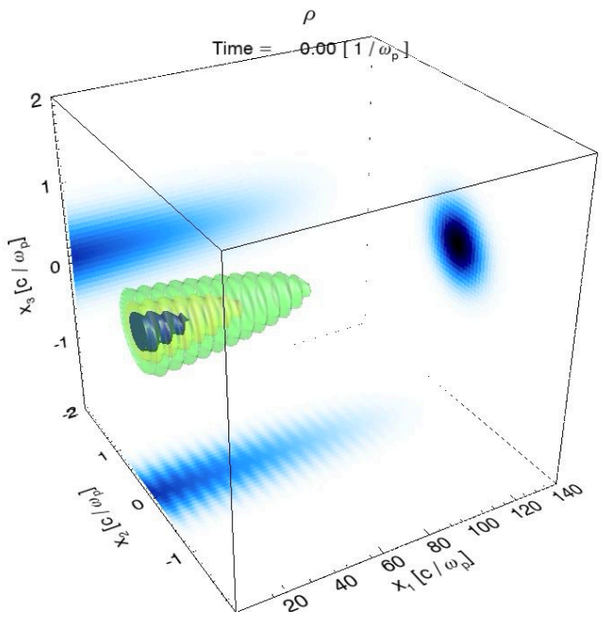


k = 1.07 k_p

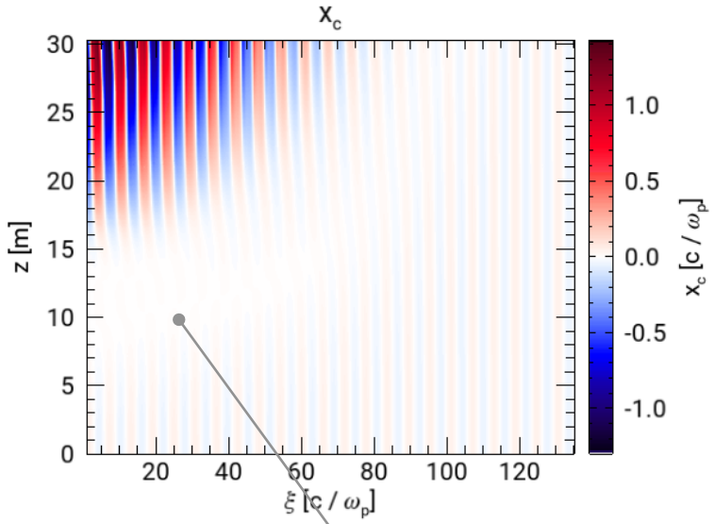
Beam centroid (simulation)



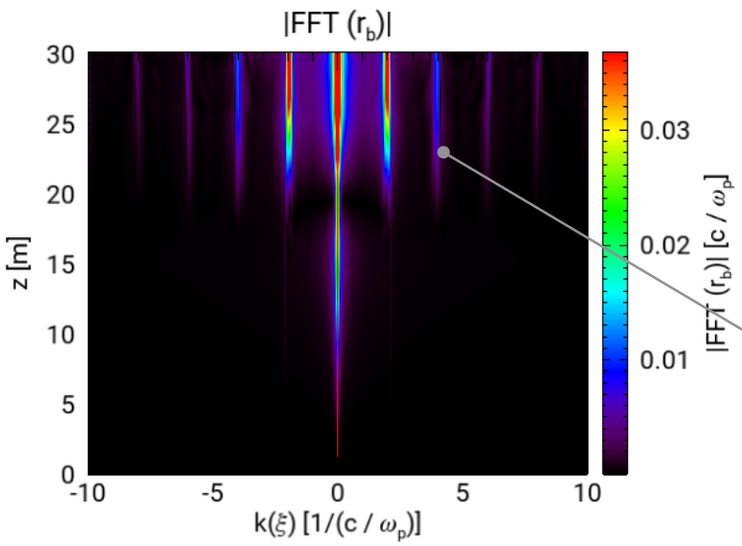
Saw what happens after 10 m (up to ~30 m)



centroid along plasma



|FFT| of radius along plasma



First dampening, then break-up

Self-modulation at even *k*'s?