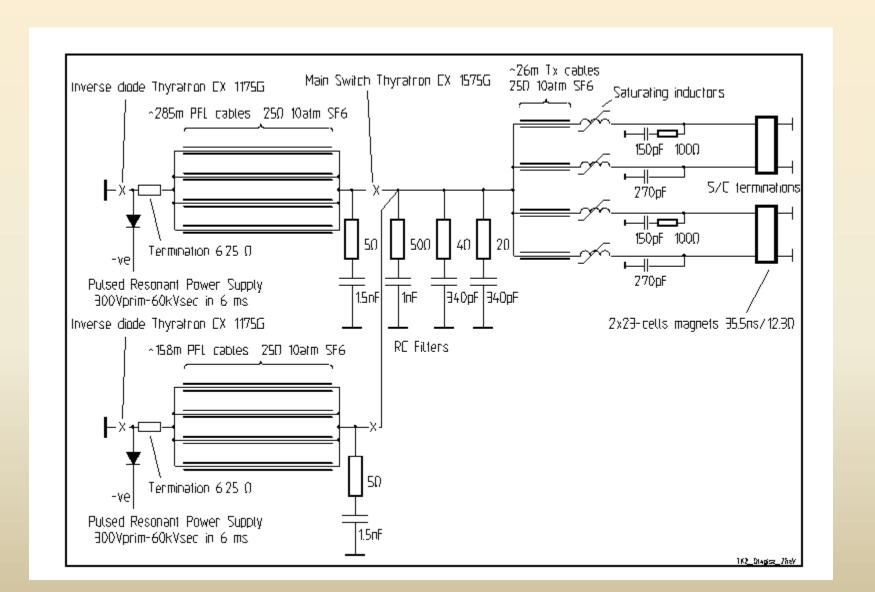


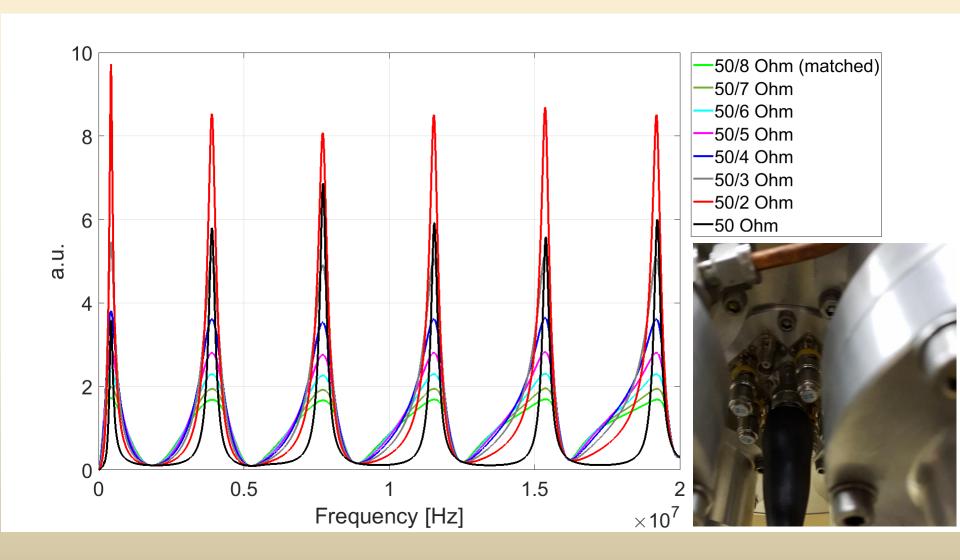
Measurements of the PS KFA20

M. Barnes, E. Koukovini-Platia, L. Sermeus, C. Zannini

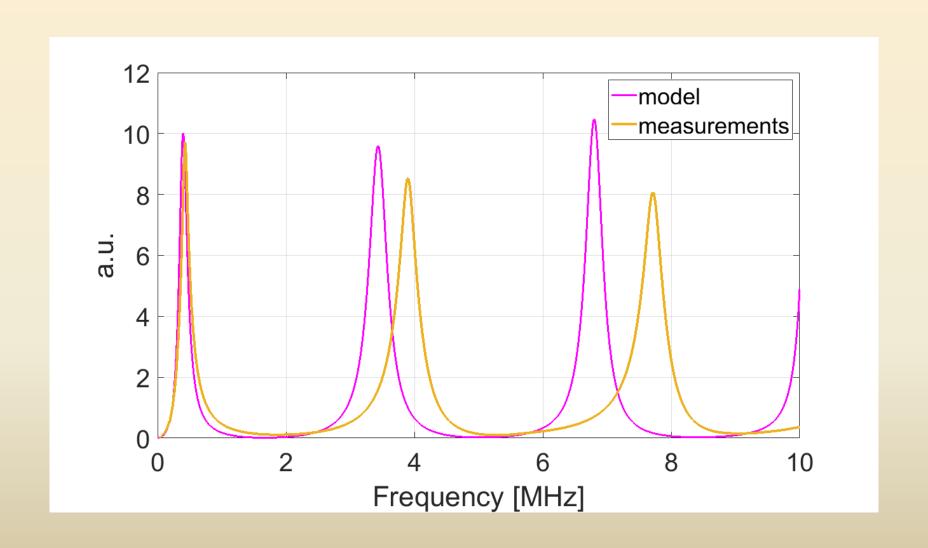
PS KFA20 kicker circuit



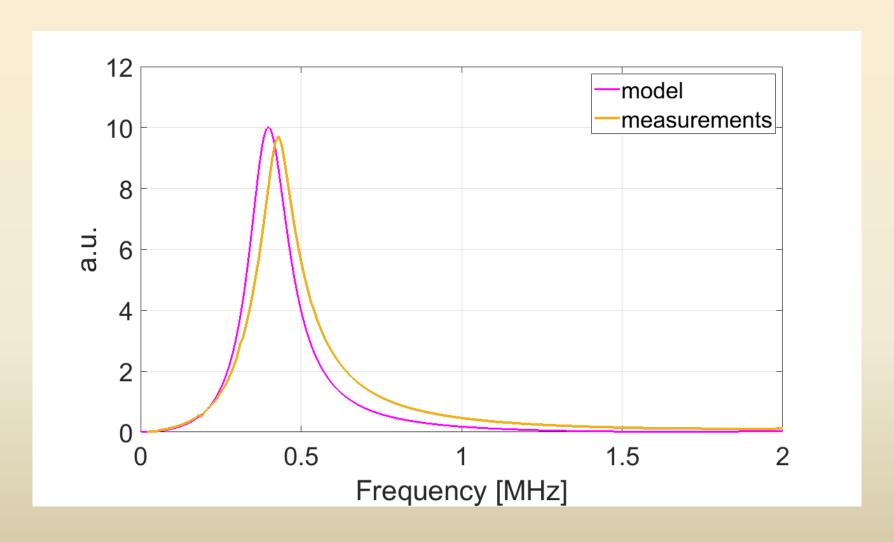
KFA20 measurements



KFA20 measurements

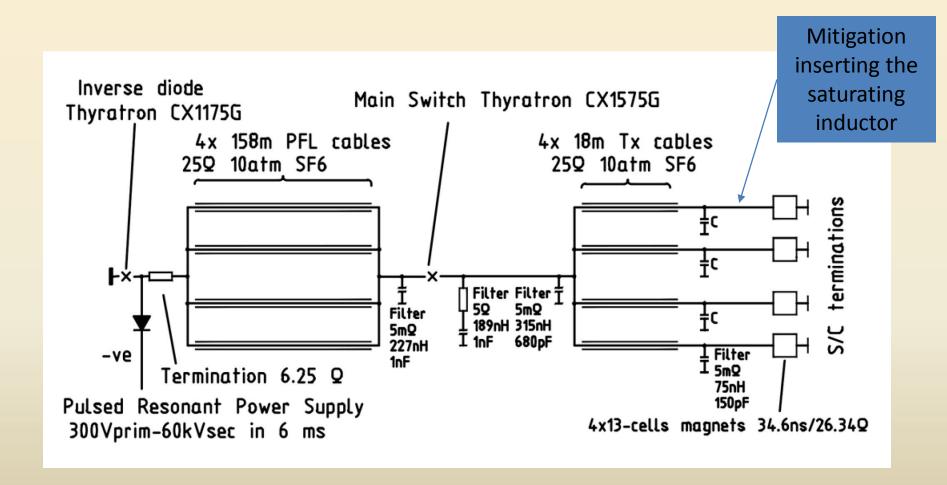


KFA20 measurements

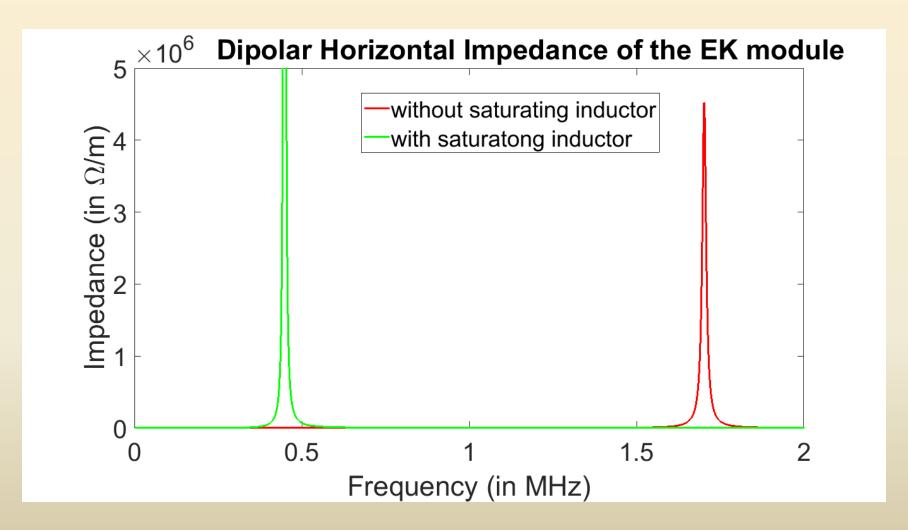


Resonance due to saturating inductor

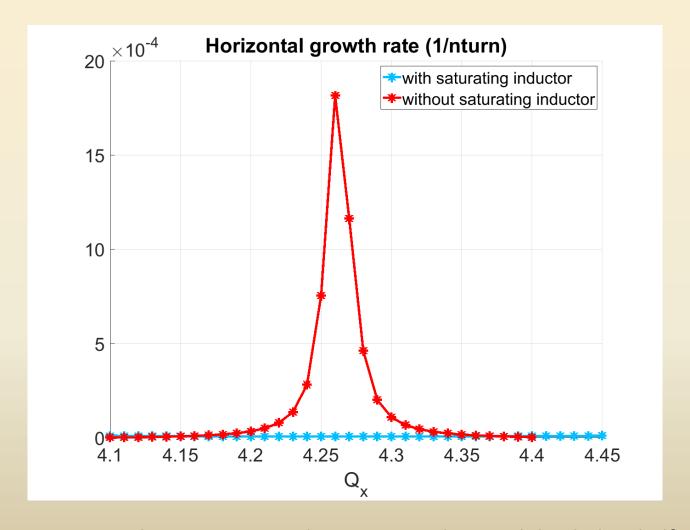
PSB EKF



Expected effect of the saturating inductor



Expected effect of the saturating inductor



The saturating inductor is expected to suppress the instability below half-integer

Next step

 Measurements on the KFA10 with and without saturating inductor to experimentally verify that the model well reproduces the effect of the saturating inductor (resonance at about 400 kHz and shift to higher frequency of the first cable resonance)