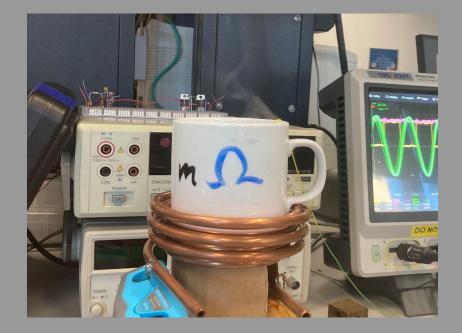
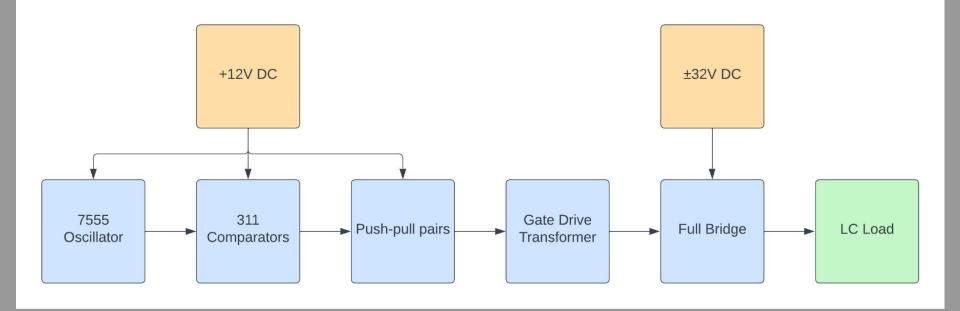
## Single-Mug Induction Heater

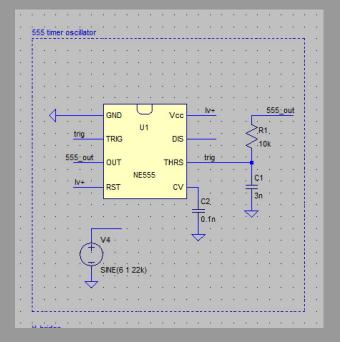


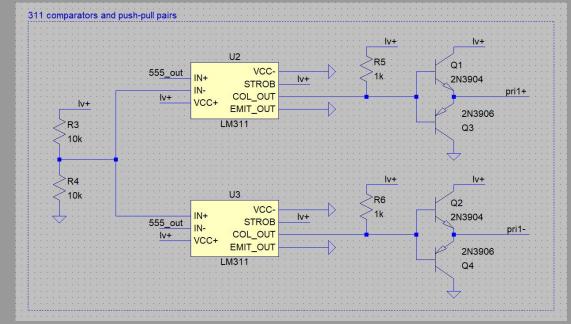
Thomas Coor, Evan Murphy, Cat Van West

## System overview

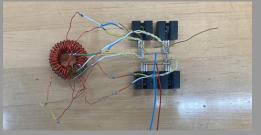


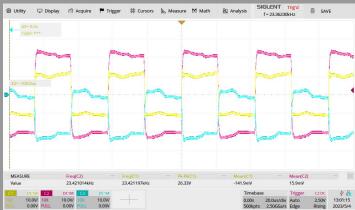
### Low-voltage control circuit

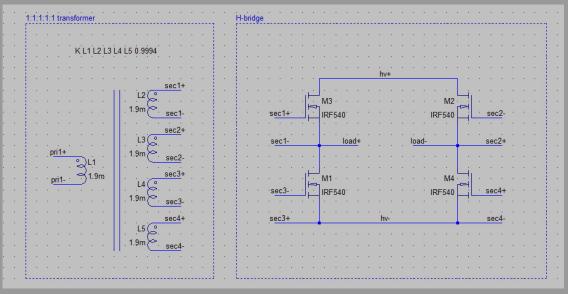




## Gate-drive transformer

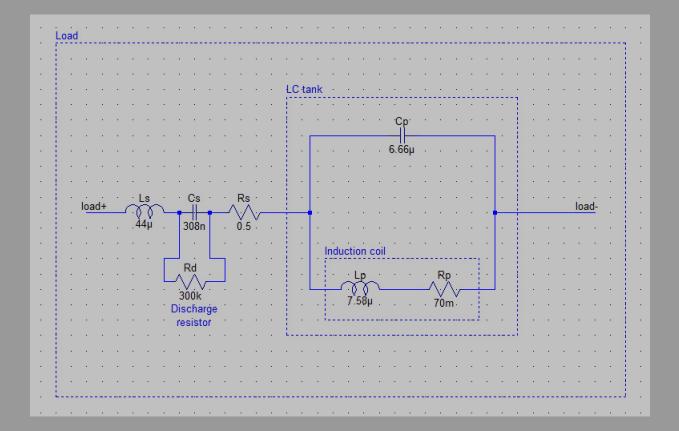








### Model of load circuit



### Frequency response



Trigger Menu

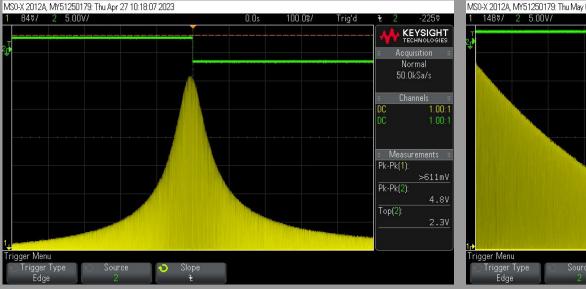
Edae

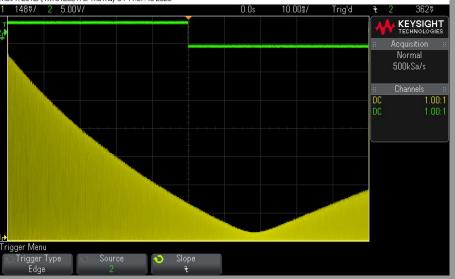
#### Parallel LC: ~23kHz



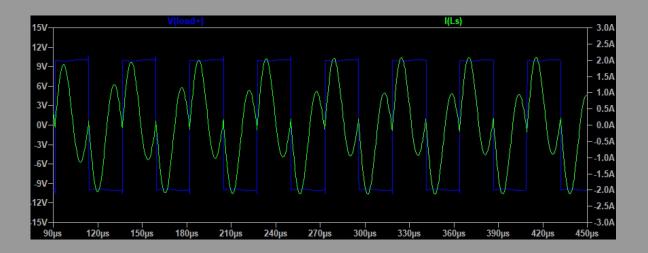
#### Series LC: ~46kHz

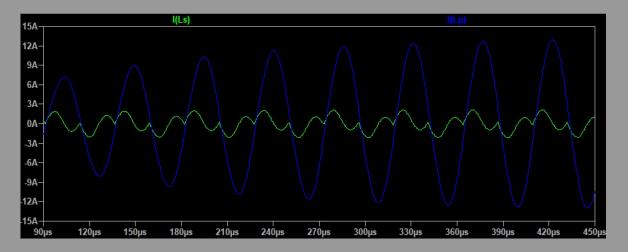
#### MS0-X 2012A, MY51250179: Thu May 04 11:07:49 2023





# Zero-current switching





Parallel: ~12A peak

Series: ~1.5A peak