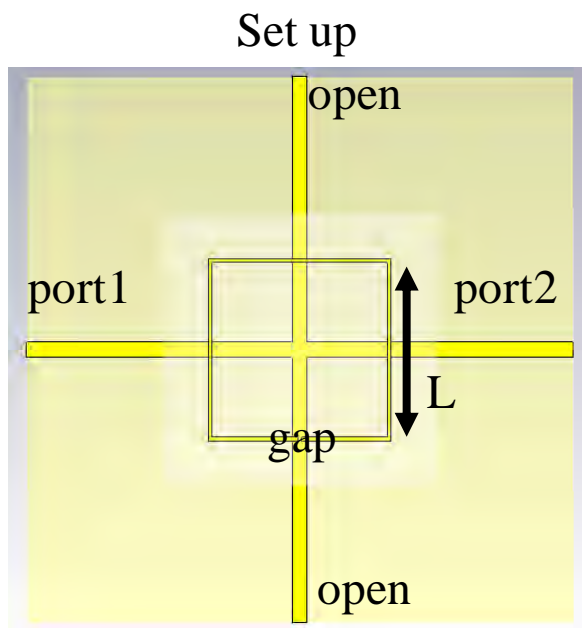


Level attraction in metamaterials

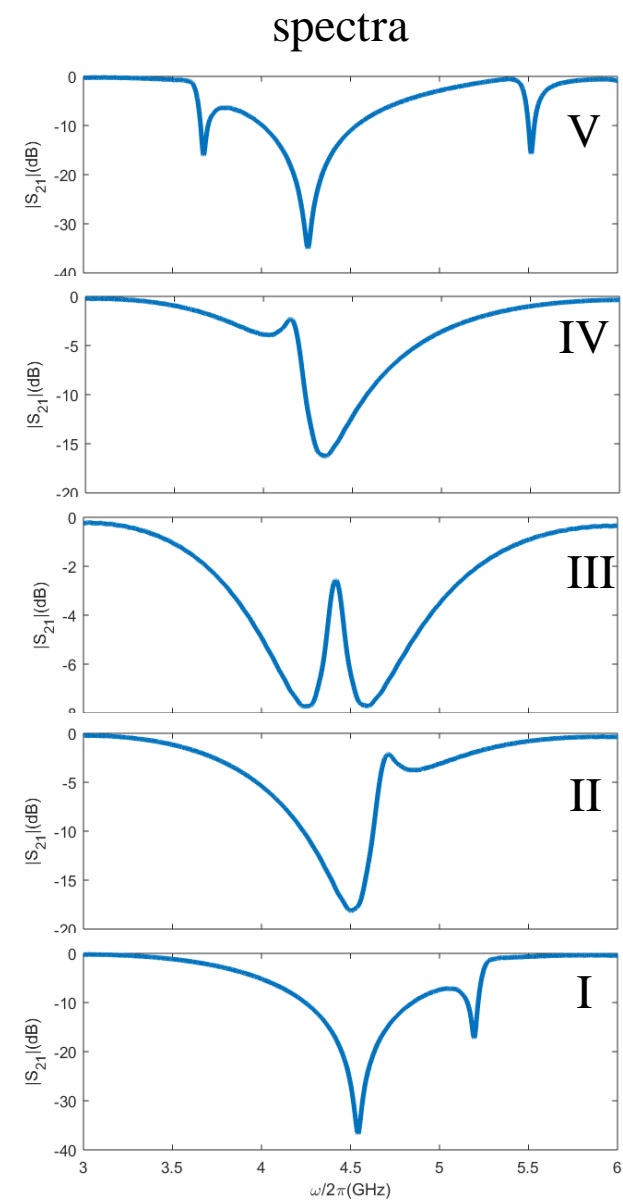
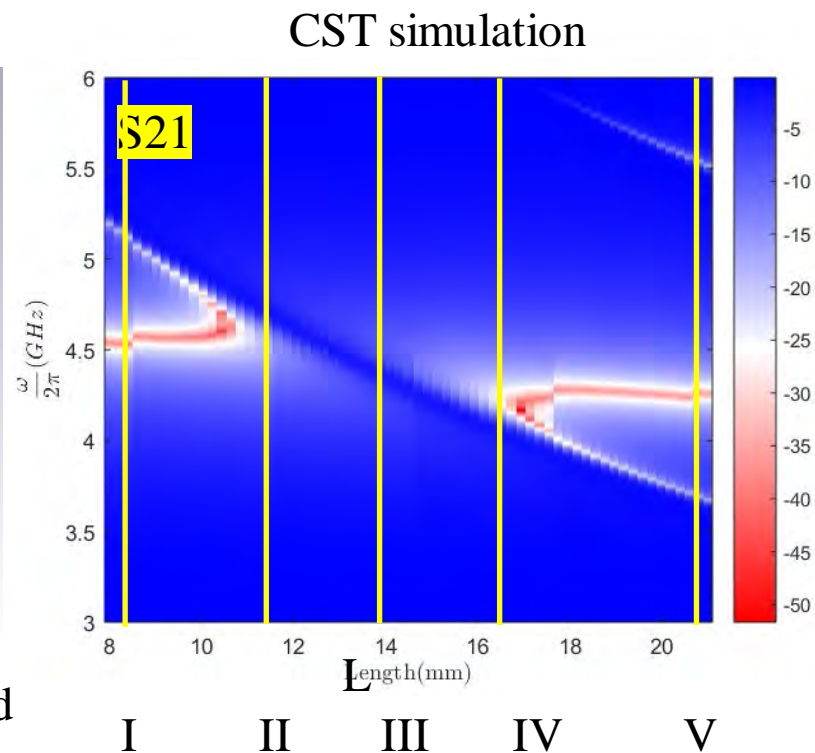
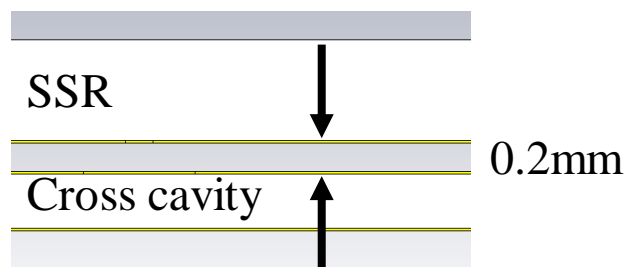
simulation results

Yutong Zhao

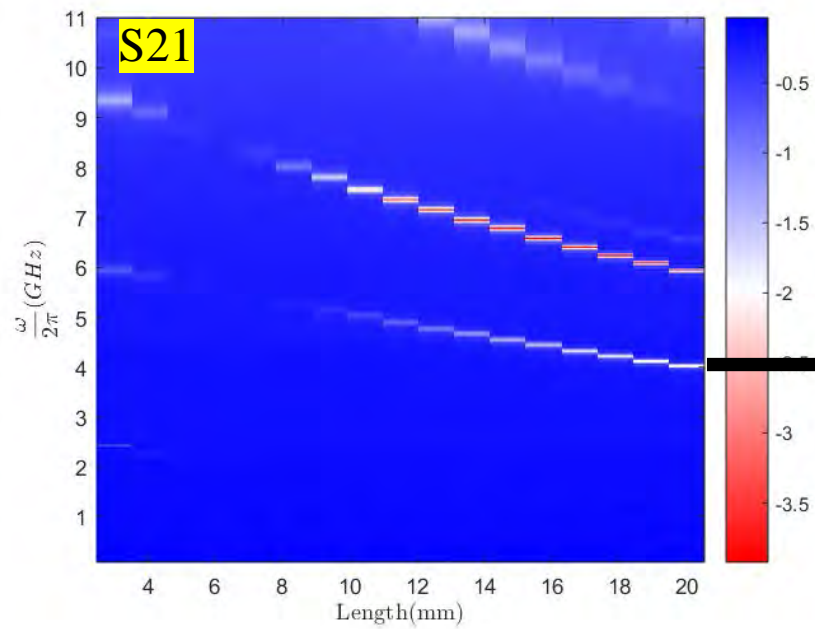
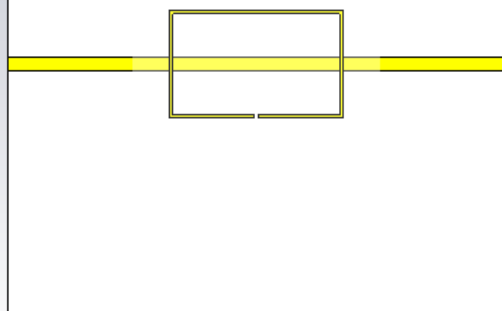
Feb 11th 2019



SSR is 0.2 mm above the board

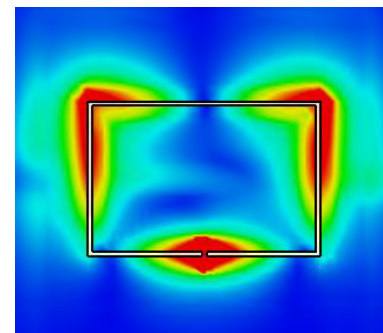


Characterize SSR

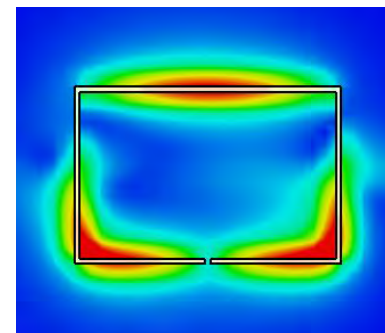


Distributions

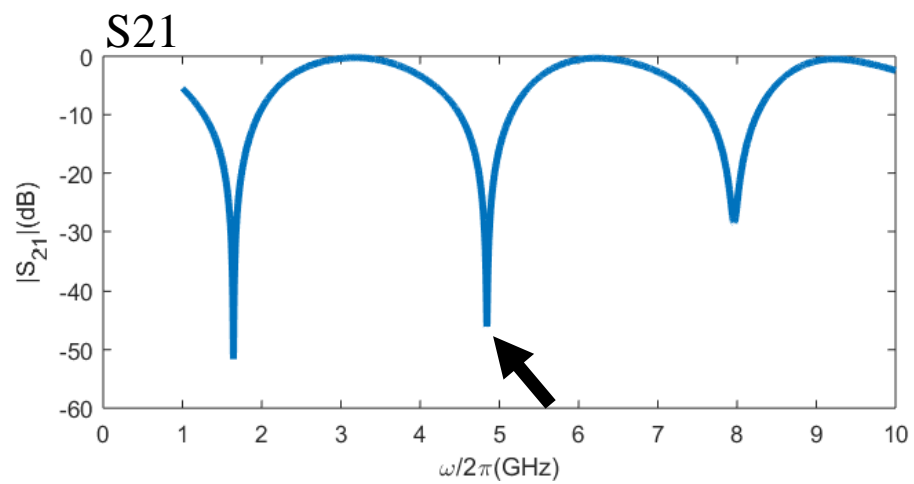
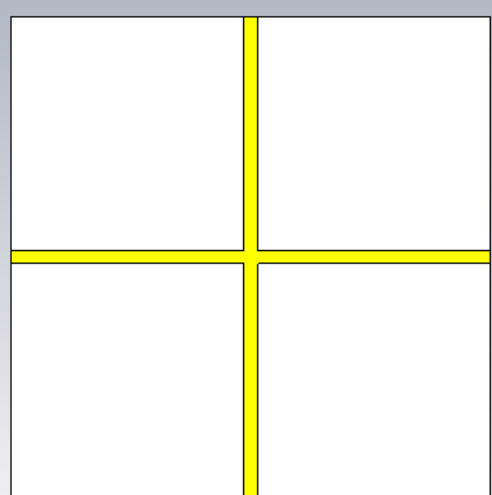
E field



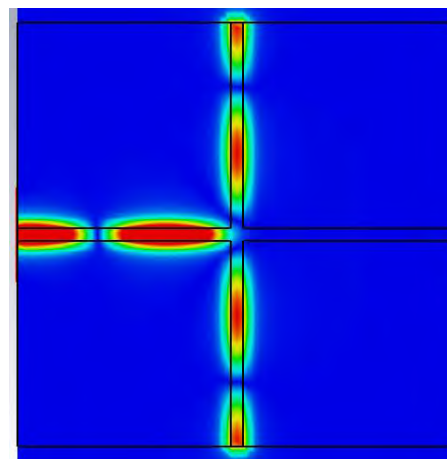
H field



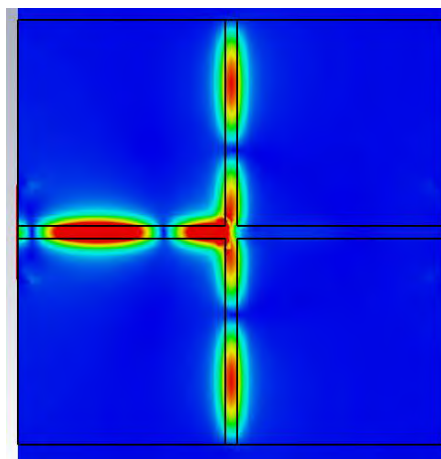
Characterize cross cavity

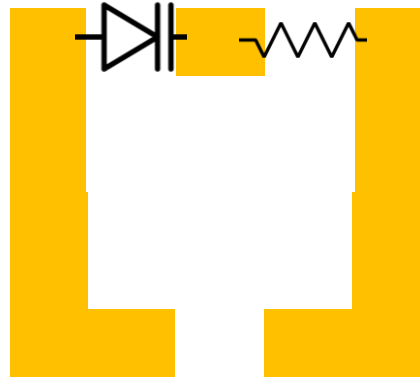


E field



H field





Experiment design:

- Using a varactor diode can bring the ability to change the resonance of the SRR.
→ (~600MHz)
- Changing the resistance on SRR is easier than YIG sphere. → tunable damping

Objective:

1. Realizing the microwave circuit of the level attraction.
2. Gives the possible approach to explore the exceptional point of level attraction.