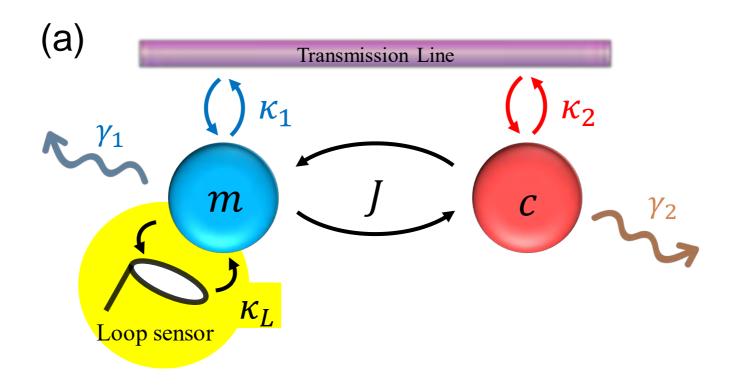
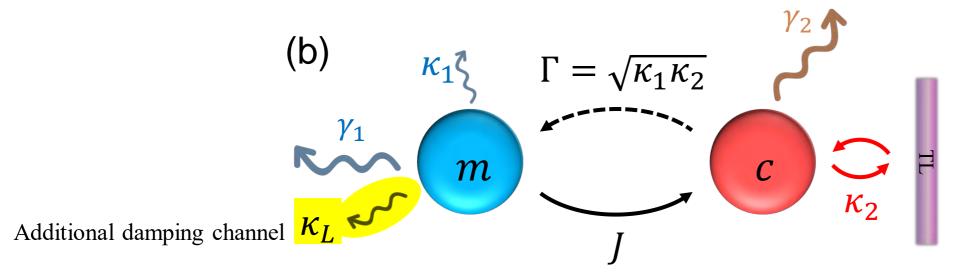
Damping influenced level attraction in CMP systems

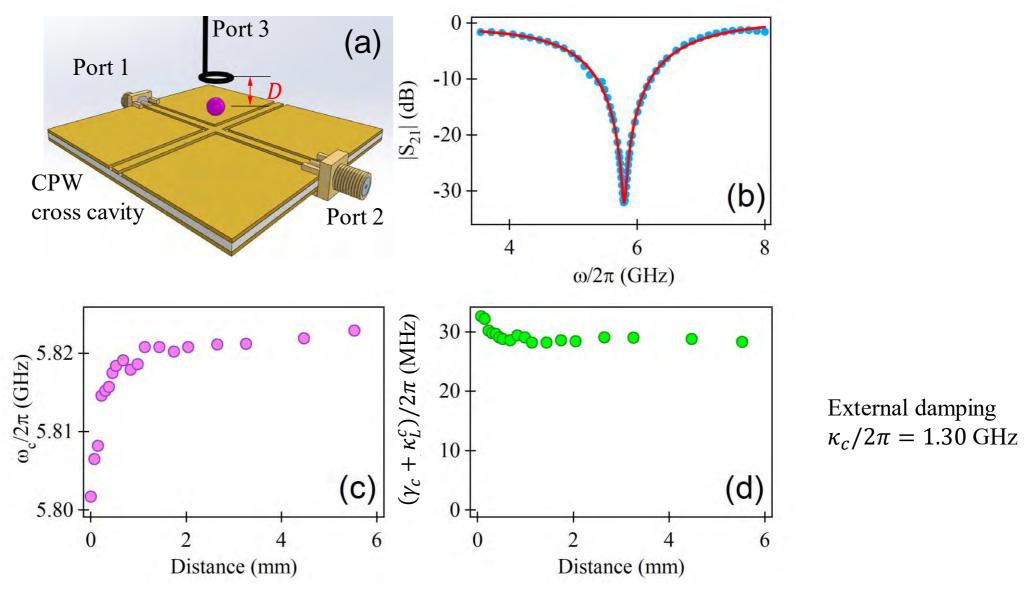
Yutong Zhao Sept 16th, 2019





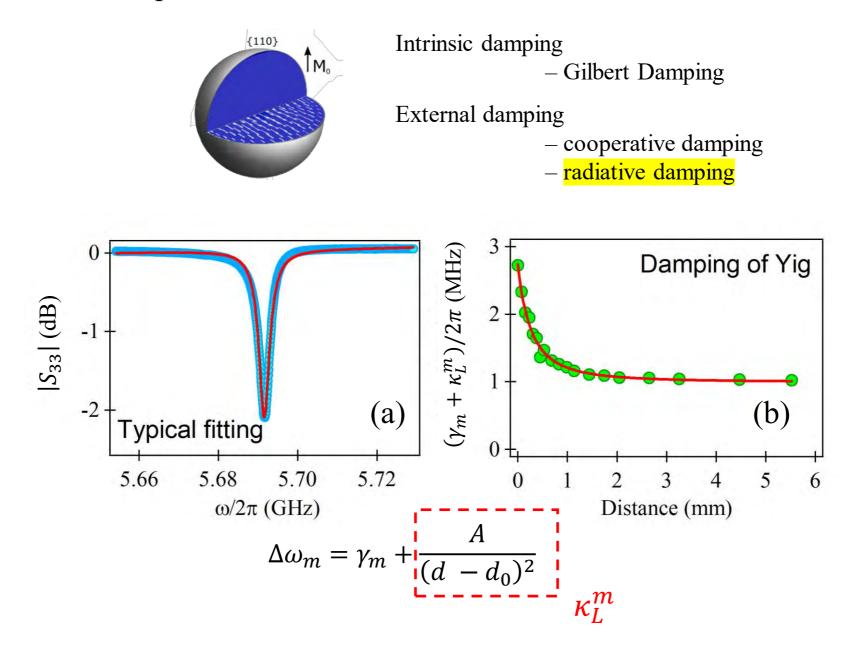


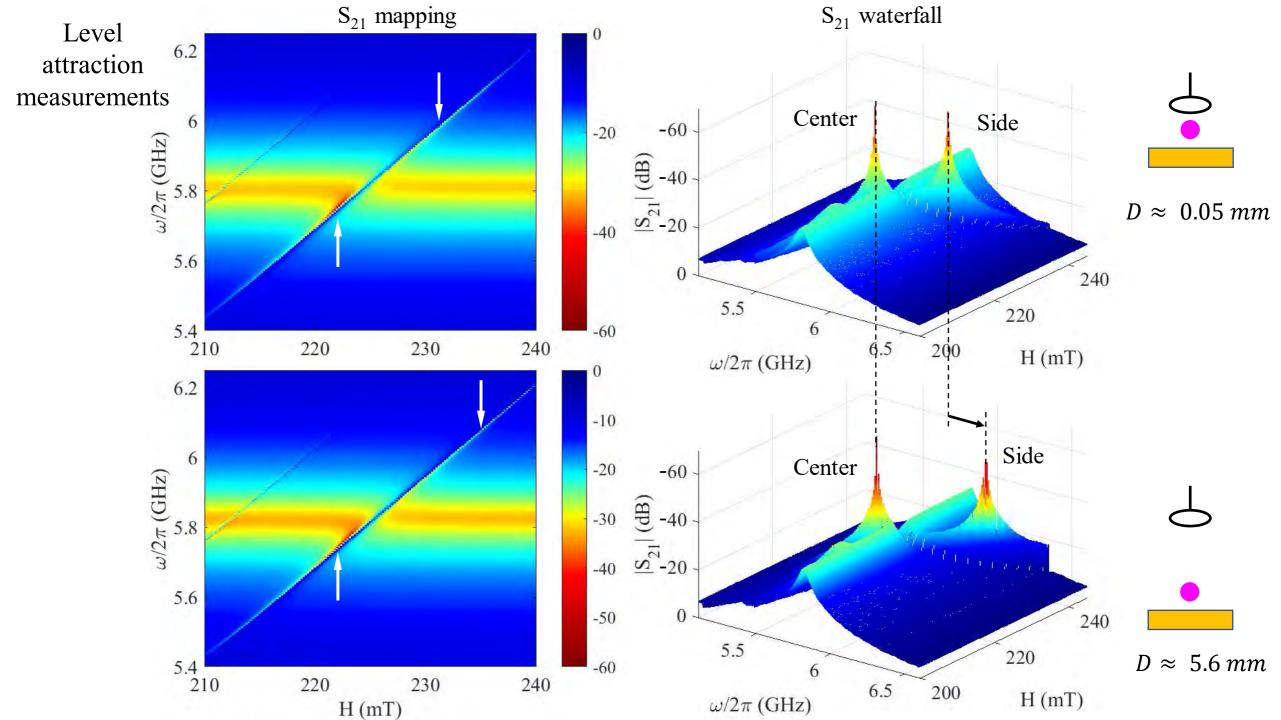
Characterize the bare cross cavity



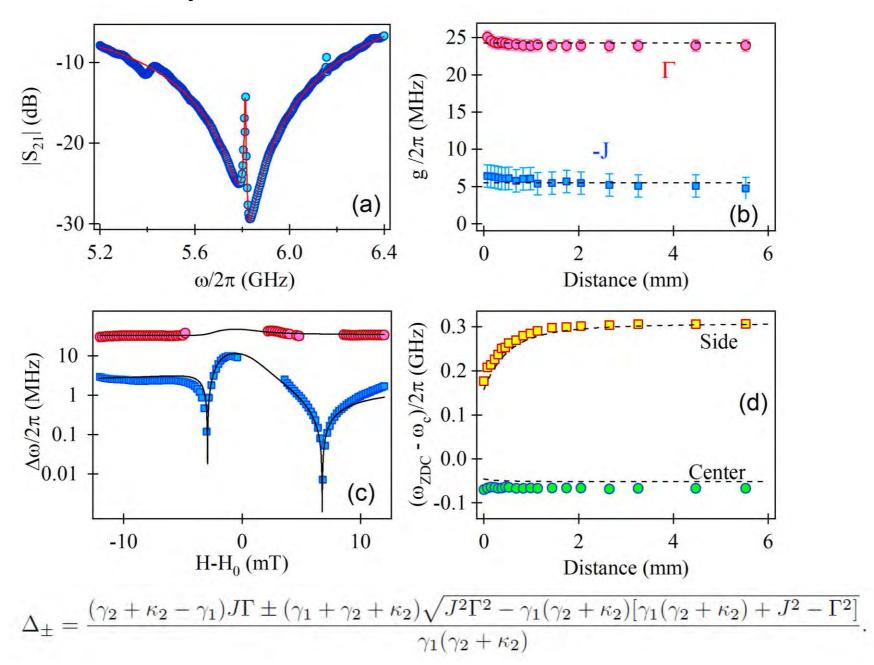
 κ_L^c Loop influenced cavity damping change

Characterize the YIG sphere





Level attraction data analysis



Conclusion

- 1. By using a loop sensor, an additional damping channel has been induced to the YIG sphere.
- 2. When changing the loop induced damping, the coupling strength remain the same while the ZDC has shifted a lot.
- 3. This study investigate the relation between the cooperative damping and dissipative coupling.