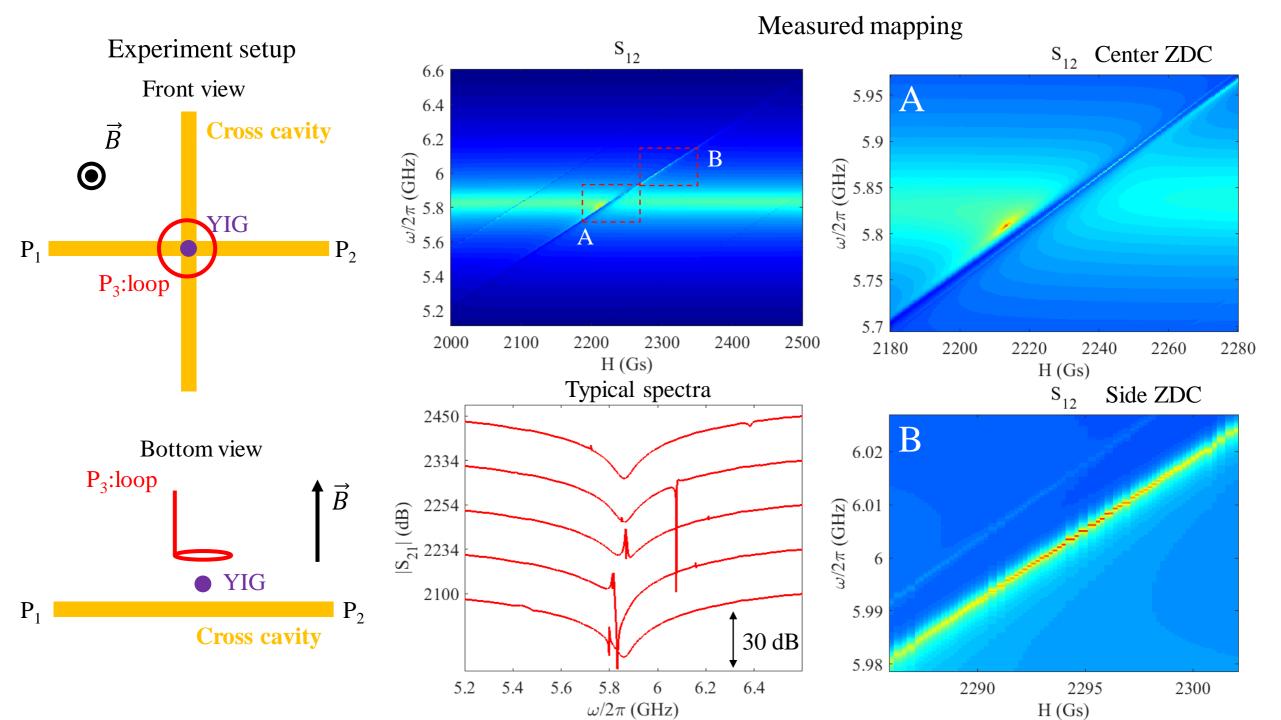
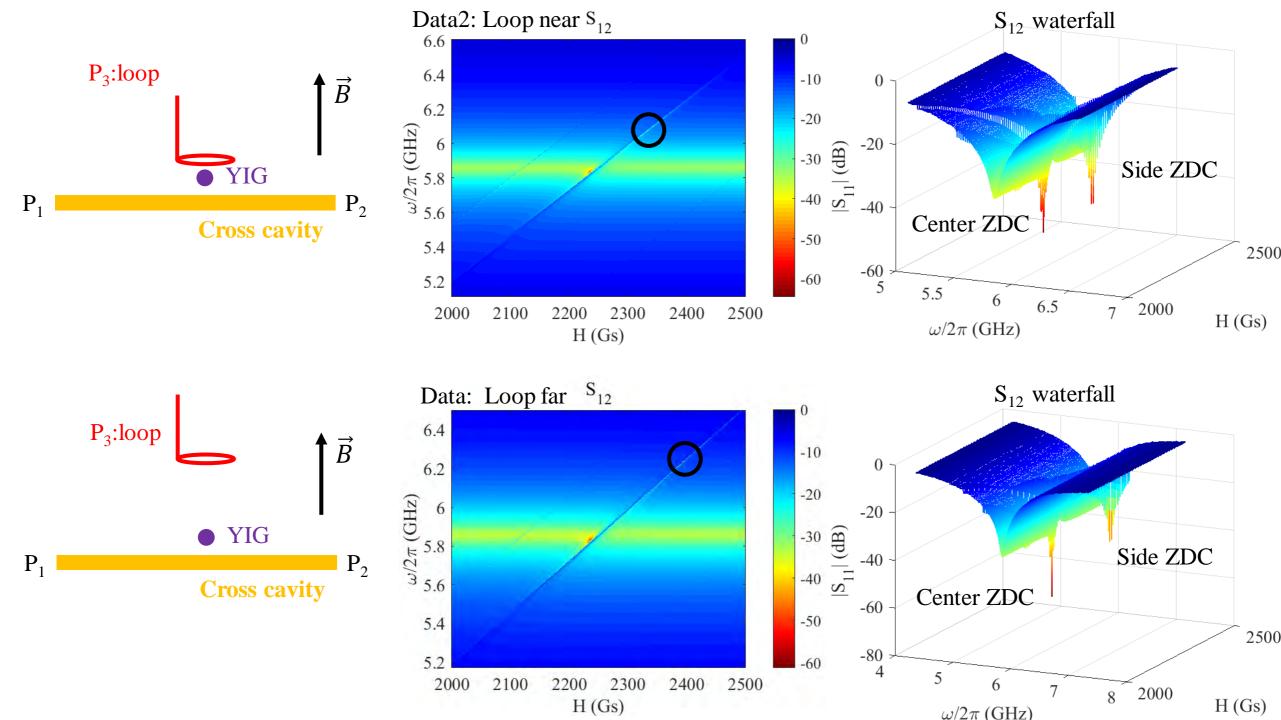
Damping Influenced level attraction

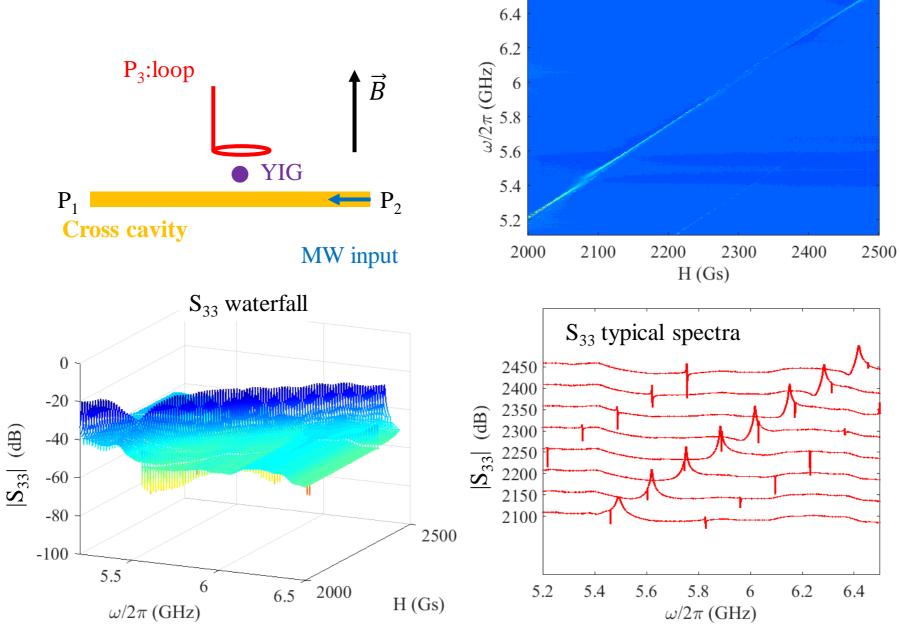
Yutong Zhao

Aug 19th 2019





Signal Read out from Port 3



6.6

 S_{33}

Summary

	S_{12}	
Distance (loop from YIG)	Center ZDC (Δ)	Side ZDC (Δ)
1 ~ 0.5 mm	5.808 GHz (-41 MHz)	6.005 GHz (173 MHz)
2 ~ 1.0 mm	5.810 GHz (-43 MHz)	6.100 GHz (263 MHz)
3 ~ 1.5 mm	5.811 GHz (-44 MHz)	6.155 GHz (313 MHz)
4 ~ 2.0 mm	5.822 GHz (-43 MHz)	6.206 GHz (362 MHz)

- 1. The damping of YIG sphere can be modified by adding a magnetic probe and controlling the distance.
- 2. The Zero Damping Condition (ZDC) will be influenced.

Next step

- 1. Continue the experiment and analysis the data, check how the coupling is changed.
- 2. Confirm the damping change by using a transmission line.