

Inspiring questions for all of the topics:

"Is this topology/technology ready to be used in GW detectors 10-20 years from now?"

"Is this topology/technology in particular useful for >4km (i.e. 10-40km) facilities?"

Tuesday AM, May 19

9:00 - 10:30 **Squeezing now and in the future: the road to 10 dB**

- [K.Dooley/E. Schreiber](#) (25 min talk) focused on losses and control scheme with squeezing injection
- [T. Isogai](#) (25 min talk) focused on input filtering
- Discussion

10:30 - 11:00 Break %%%%

11:00 - 12:30 **"Intra-cavity" filtering**

- Overview ([K. Somiya](#), 25 min)
- White light cavities ([H. Miao](#), 25 min)
- Discussion

Tuesday PM, May 19

4:00 - 5:30 **Output filtering**

- Variational readout ([J. Harms](#), 25 min)
- Output "anti-squeezing" ([G. Cella](#), 25 min)
- Discussion

5:30 - 6:00 **What have we learned today? (All)**

6:00 - 8:00 Posters and reception %%%%

Wednesday AM May 20

9:00 - 10:30 **Opto-mechanical interactions**

- Status and prospects for application in GW detectors ([A. Libson/T. Corbitt](#), 30-45 min)
- Discussion

10:30 - 11:00 Break %%%%

11:00 - 12:30 More Posters Session %%%%

Wednesday PM May 20

4:00 - 5:30 **Topologies**

- Speed-meter ([S. Danlishin](#), 25-30 min)
- Discussion
- Round table: Topology study for new facilities ([D. McClelland](#), [D. Sigg](#), [S. Hild](#), [M. Evans](#), [S. Ballmer](#), [H. Lueck](#))

5:30 - 6:00 Break %%%%

6:00 - 7:00 TBD, based on inputs from previous sessions