New Detection and Sensing Schemes Meeting

1. Pumped cavities (I was doing some calculations for a pumped cavity as a downconverting device for broadband detection) (S. Ellis)
2. Phase sensitive detection. (Di Candia)
3. Weak measurements (can this be a way to keep quantum correlations while exchanging data classically between far experiments? Can we use weak measurement+ optimal control to increase coherence time of a qubit/sensor?) (Albarelli Normale Pisa)
4. Magnets as weber bars: should we add a pickup coil in our magnets? Can we use atomic/nuclear magnetometers instead of squids in this case? (S. Ellis, Budker, P.Falferi)
5. Combining coehrently more cavity with beam splitters+photon counting. (Maccone, Roncallo)

Theory:

S. Ellis (lead discussion)

Sensing:

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