Extra Material
2. Change in wave correlations, based on array measurements
3. Test mass height is ~2 m above ground (not ~0 m)
What about Scattered Light?

- Light from somewhere gets to the readout photodiode.
- Light from the chambers/tubes/detectors enters the arm cavity mode.
- Scattering in the arm cavities appears as index of refraction fluctuations.

Modulated light with a random static phase, will contribute to both amplitude and phase noise.

Backscatter in the arm cavities and SRC makes radiation pressure noise and gets worse with higher laser power.