aLIGO H1 DARM noise, 2015-03-27 23:35:00 UTC 10^{-14} Total expected Newtonian Measured (10 W) Suspension thermal GWINC total (10 W) Coating Brownian DCPD dark current Quantum (10 W) 10^{-15} Seismic DAC→ESD ASD of displacement $[m Hz^{-1/2}]$ 36 Mpc observed 10^{-16} 60 Mpc expected 10^{-17} 10^{-18} 10^{-19} 10^{-20} 10^2 10^3 10^1 Frequency [Hz]