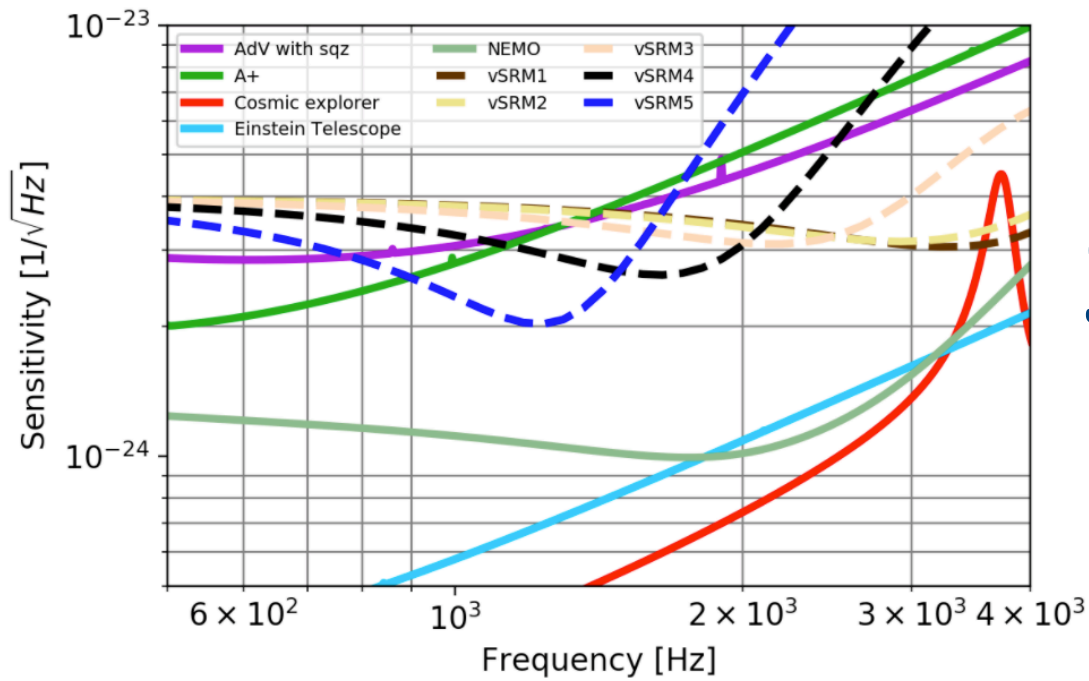
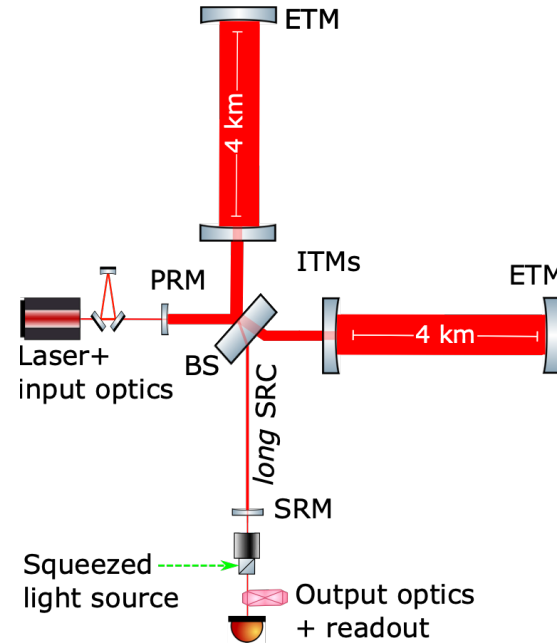
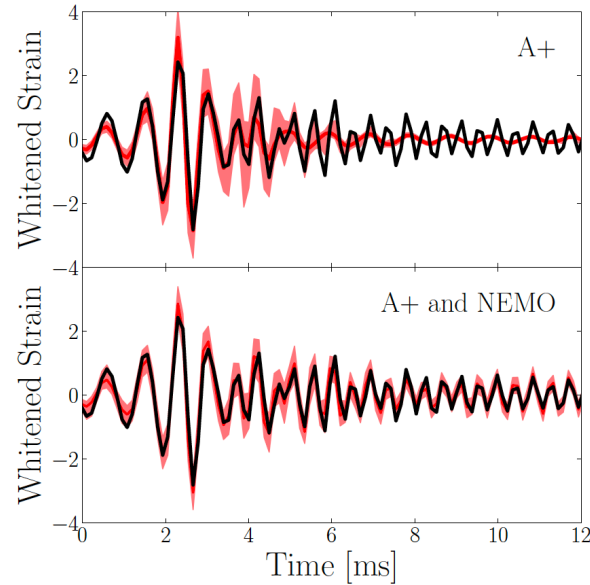


NEMO Summary slide



NEMO science case:
BNS; in an network of
A+'s, increase in
detection rates of
BNS' and better phase
tracking of post
merger.



Parameter	Value
Laser Wavelength	2 μm
Laser Power	500 W
Arm Length	4 km
Signal Recycling Cavity Length	354 m
Power Recycling Mirror Transmission	3%
Input Test Mass (ITM) Transmission	1.4%
End Test Mass (ETM) Transmission	5 ppm
Signal Recycling Mirror Transmission	4.8%
Power on Beamsplitter	31.2 kW
Arm Circulating Power	4.5 MW
Injected Squeezing level	10 dB
Test Mass Material	Silicon
ITM Temperature	150 K
ETM Temperature	123 K
Test Mass Coating	AlGaAs/GaAs
Test Mass Diameter	45 cm
Test Mass Thickness	20 cm
Test Mass Weight	74.1 kg
ITM Radius of Curvature	1800 m
ETM Radius of Curvature	2500 m
Beam Radius on ITM	57.9 mm
Beam Radius on ETM	83.9 mm
Suspension Fiber Length	0.55 m
Suspension Fiber Material	Steel
Suspension Fibers per Test Mass	4
Test Mass Cooling Method	Radiative
Interferometer Configuration	Dual Recycled with Fabry Perot Arms