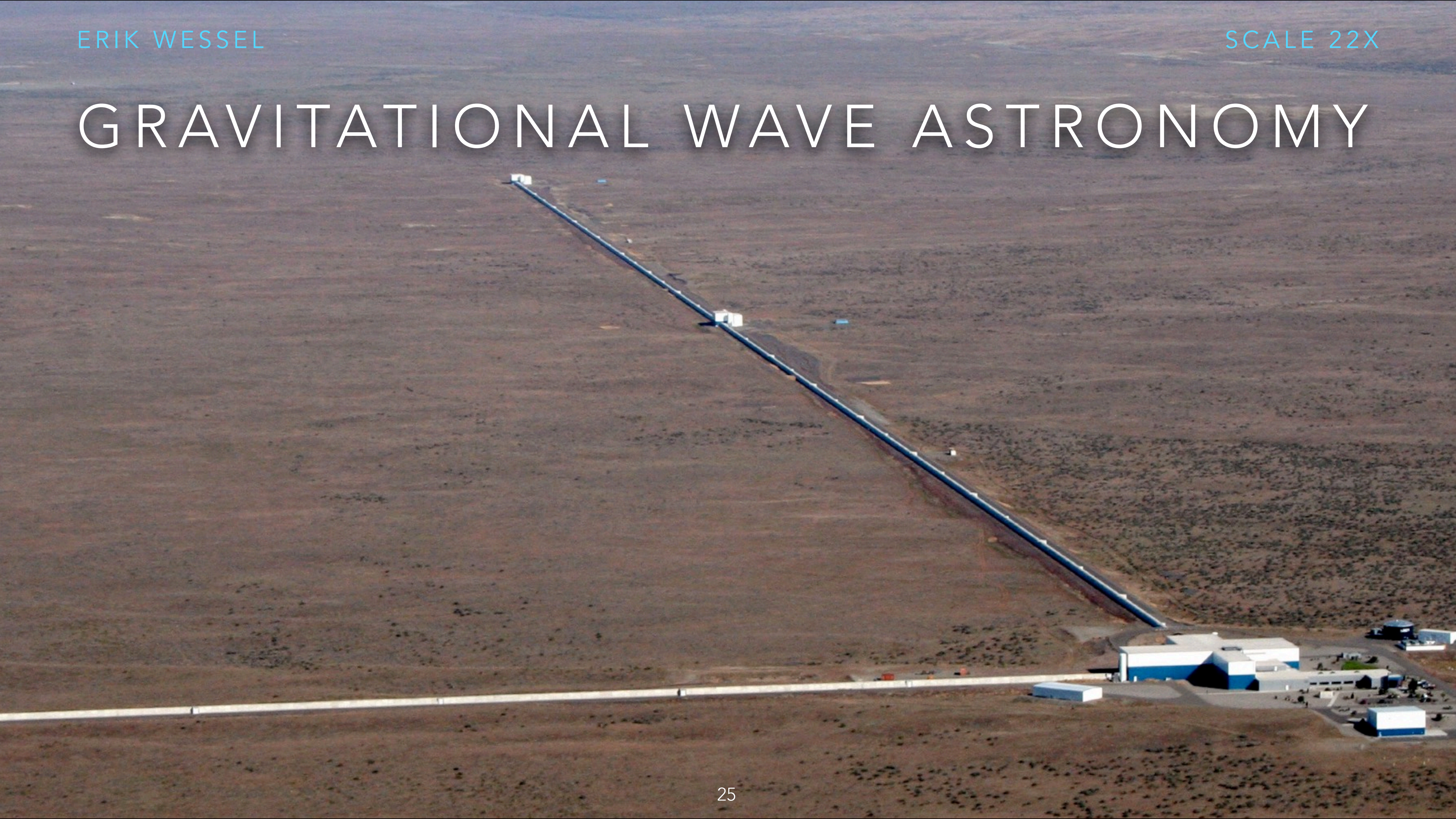


ERIK WESSEL

SCALE 22X

GRAVITATIONAL WAVE ASTRONOMY



GRAVITATIONAL WAVE ASTRONOMY

- Ripples in spacetime stretch & shrink distances slightly
- Sensitive interferometers at two LIGO (🇺🇸) sites, Virgo (🇮🇹), & KAGRA (🇯🇵) measure this
- Noise-dominated, rely on *matched filtering*: We measure the signal-to-noise ratio of a *candidate waveform*
- **Sensitivity depends on accuracy of waveform models → numerical relativity**

