

Total-noise spectrum of different configurations

strain ($1/\sqrt{\text{Hz}}$)

10^{-22}
 10^{-23}
 10^{-24}

- Squeeze light + Input filter cavity (SIFC)
- Squeeze light + Output filter cavity
- Speed-meter scheme + SIFC
- Long signal-recycling cavity + SIFC
- Dual carrier fields + SIFC
- Local readout scheme+ SIFC
- AdvLIGO total-noise budget

10^1

10^2

10^3

f (Hz)

