



IFO basic configuration on initial LCGT

- Simple interferometer with 3km arms, **following low temperature RSE in future**
 - Room temperature FPMI (no PR, no RSE)
 - Low power (<10W)
 - Fused silica mirror, no thermal compensation
 - Low frequency seismic attenuator will be installed, but not used by fixing mechanically
 - RF readout
- NS-NS in-spiral range will be about 5MPc, in SNR=8, sky averaged.
 - This sensitivity is limited by seismic motion and shot noise. This large seismic noise comes from low performance of the mechanically fixed seismic attenuators.
- Detailed design will be determined by each subgroup.