

About this page:

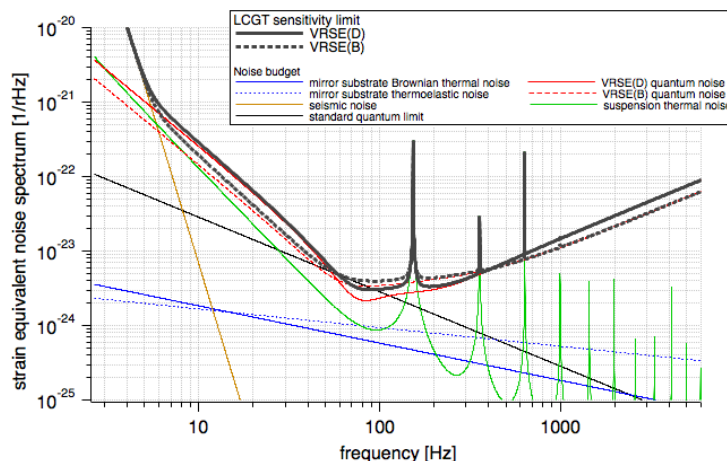
Estimated sensitivity limits of LCGT are presented here. These curves are calculated from incoherent sum of the fundamental noise sources. Actual sensitivity to gravitational- wave signals may be degraded from these ideal calculation because of technical noise sources.

Two types of curves are described. One is an official curve, which has been officially approved by the project manager. Another is a latest best estimation, which includes strategic or technical updates of detector design.

LCGT official sensitivity limit

Officially approved sensitivity limit curve is presented here.

- [Study report on LCGT interferometer observation band, 8th Sep. 2009 \(pdf, ~1.2MB\)](#)
- [VRSE\(D\) data \(delimited text, gzip, ~70KB\)](#)
- [VRSE\(B\) data \(delimited text, gzip, ~70KB\)](#)
- [Detail spectra of noise budget \(zip, ~800KB\)](#)



Officially approved sensitivity limit curve

last update : 8th Sep. 2009

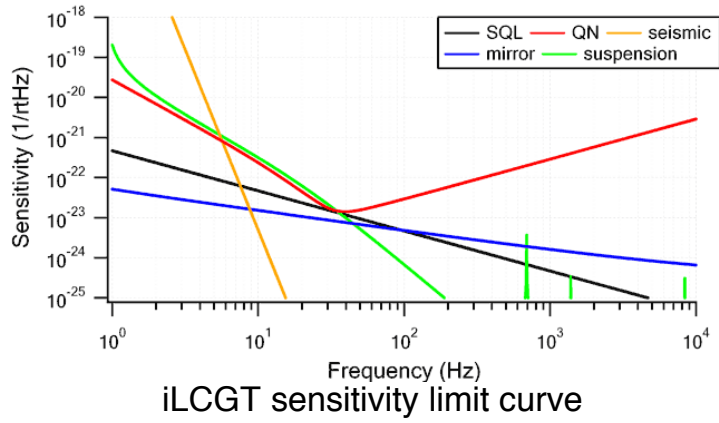
LCGT latest sensitivity limit

Latest sensitivity limit curve are presented here. These curves will be updates at any time, and should be treated as beta-version data.

iLCGT

iLCGT is an initial operation phase of LCGT, which will be operated at room temperature.

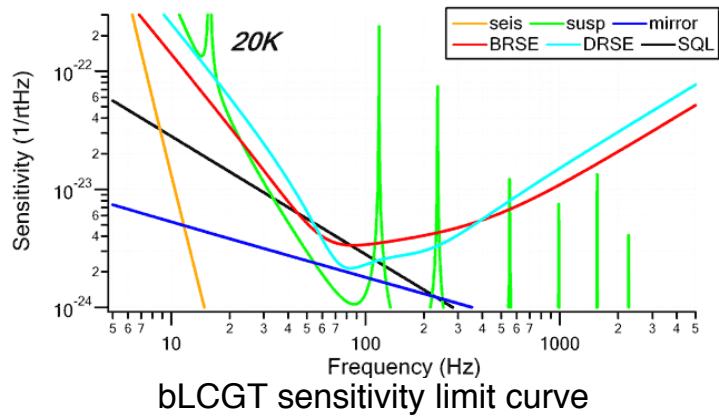
- [data and update history \(SVN page, under maintenance\)](#)



bLCGT

bLCGT stands for baseline LCGT, operated with the final detector configuration at cryogenic temperature.

- [data and update history \(SVN page\)](#)



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