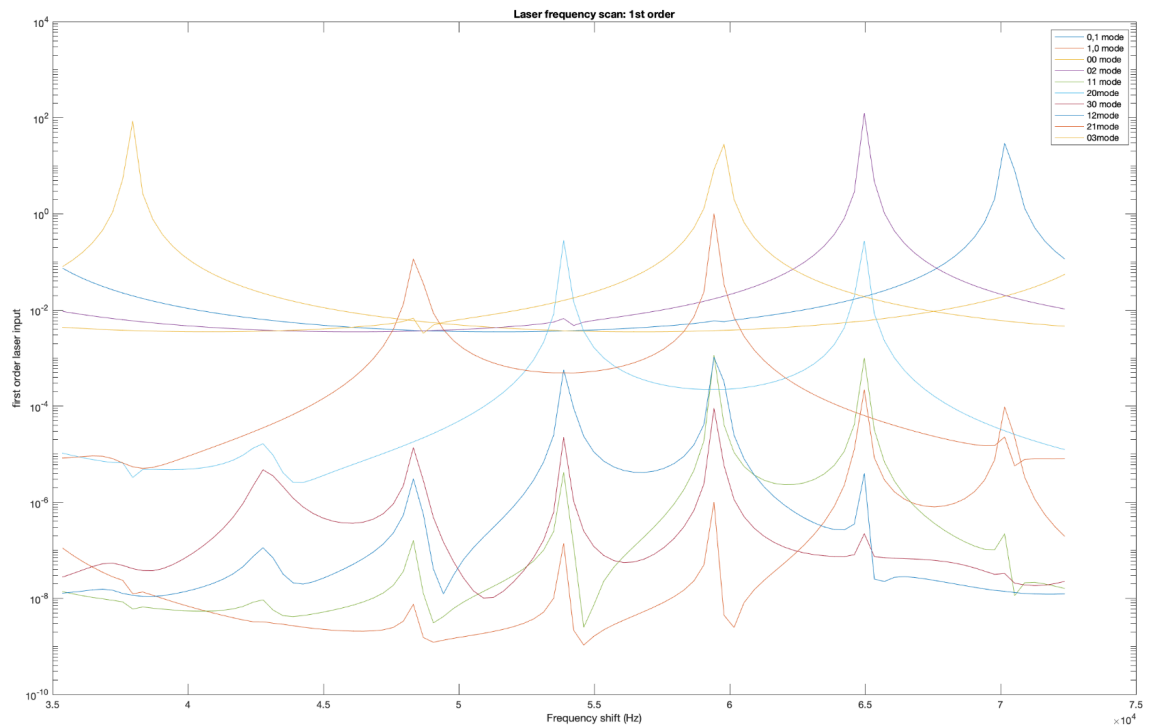


So far graphed 0-3 orders:



Question: for injecting higher order modes, there would be many for each order (for example 3 for 2nd order like 2,0 mode, 1,1 mode....) how should we graph for orders 0-10 while simplifying the lines for each order? For example I could find the sum (like sum of all 2nd orders, all 3rd orders.etc)

Unsure how to tell which data files to use for a mirror for example ETM08 data files

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ETM08 LIGO Figure Measurement

Document #: [LIGO-E1300280-v3](#)
Document type: [E - Engineering documents](#)
Submitted by: [GariLynn Billingsley](#)
Updated by: [GariLynn Billingsley](#)
Document Created: 17 Apr 2013, 12:30
Contents Revised: 20 May 2022, 07:18
Metadata Revised: 18 Feb 2024, 07:49

Abstract:
Figure measurement for the coated aLIGO optic ETM08 ROC is 2240 m

Files in Document:

- [ETM08_S1_160_mm_dia.pdf](#) (371.6 kB)
- [DATA_ETM08_mirror_figure_measured_at_Caltech](#) (ETM08_S1_-power160.dat, 4.5 MB)

Other Files:

- [ETM08_S1_self-ref.dat](#) (4.5 MB)
- [ETM08_mirror_figure - data provided by LMA](#) (C22008_ETM08_Final 2.dat, 4.2 MB)
- [Power subtracted on 300 mm diameter ETM08 mirror figure - data provided by LMA](#) (C22008_ETM08_Final.dat, 4.2 MB)

Topics:

- [Subsystem Test](#)
- [Core Optics](#)

Authors:

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Keywords:
[ETM](#) [ETM08](#)

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- LIGO-E1000782: [ETM08 Characterization](#)

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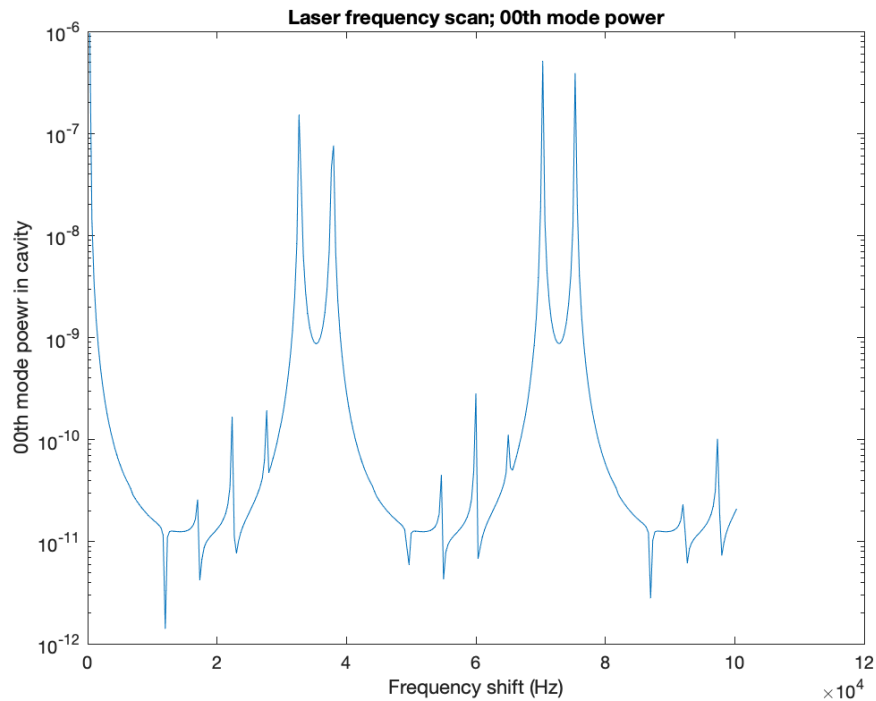
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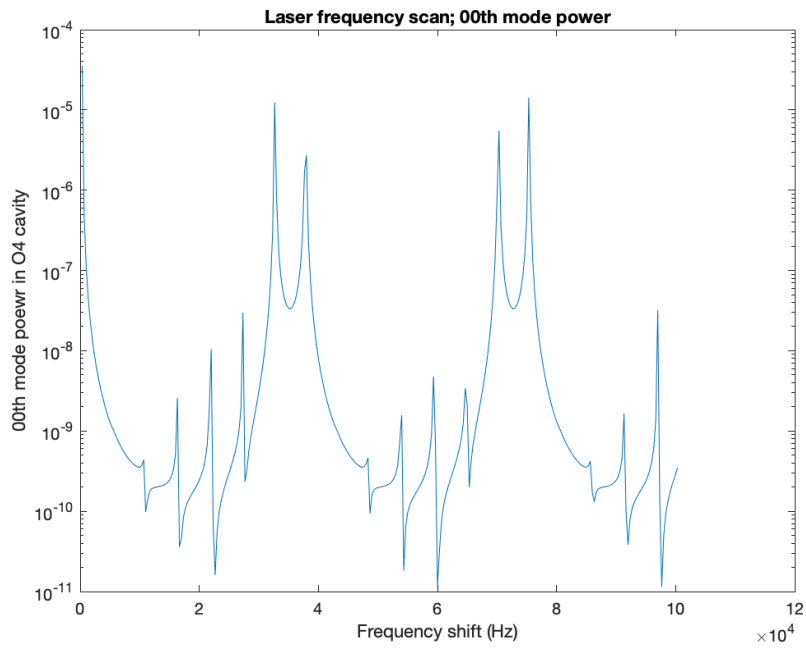
Logged in as: cynthia.liang@ligo.org In Group(s): LSC

ETM08 mirror uncoated (notes: titles are mislabeled and these are scans for some HOM):

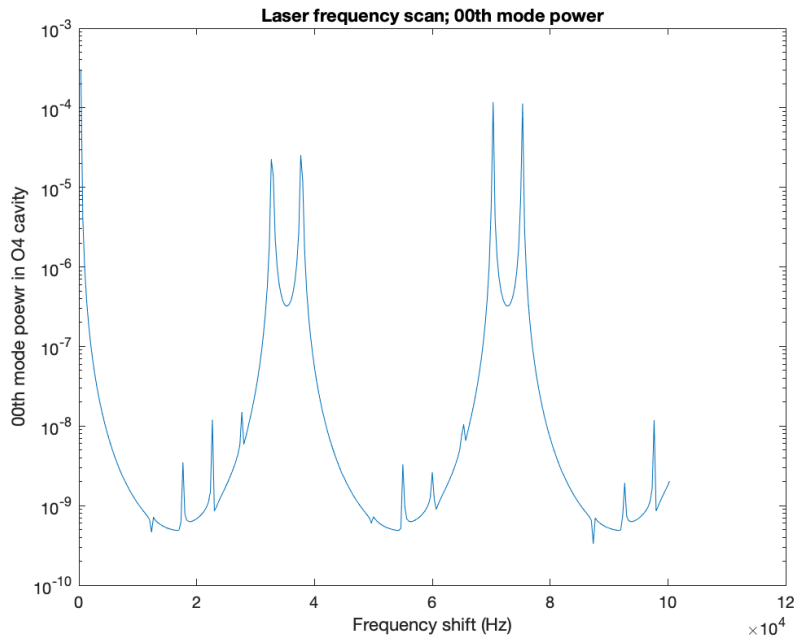


ETM08 mirror coated

00 orders
Mirror figure measured at caltech



Power subtracted on 300 mm diameter ETM08 mirror figure- Mirror figure data provided by LMA



Mirror figure data provided by LMA

