



Contribution ID: 86

Type: talk

Theoretical Effective Emissivity for the LIGO Voyager Test Masses

Tuesday, 18 May 2021 07:00 (20 minutes)

We present our theoretical calculations of the effective emissivity for the LIGO Voyager test masses. Once Si at 123 K is a semi-transparent material, the emissivity depends on the mean thickness and the absorption, both calculation is also shown in this presentation. Finally, we present our recent results using internal reflexions for the mean thickness calculations.

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Session Classification: Cryogenics workshop

Track Classification: Workshops: Cryogenics workshop