

Update on modelling activities and bond strength trials from Glasgow

We present updates on the modelling work happening in Glasgow towards the design of prototypes for the next generation of suspensions. The previous models of advanced LIGO are reviewed, and the effect of deviations from ideal scenarii on the suspension thermal noise are studied. As we make progress towards the definition of parameters for our cryogenic suspension, bond strength trials and safety factors are discussed. We also address modelling suspension dynamics, and scaling up towards heavier masses such as the ones in ET.

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