

Status of AlGaAs as an Optical Coating for Future GW Interferometers

We present the status of aluminum-gallium-arsenide (AlGaAs) as a coating material for the test masses of future interferometric gravitational wave detectors. We discuss the thermal noise advantages of using AlGaAs, the status of its optical properties such as scatter and absorption, as well the challenges with the size availability. Different options to solve the size problem are presented.

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