GWADW2021 Gravitational Wave Advanced Detector Workshop



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Type: talk

Status of R&D activity on IBS SiNx coatings (Invited)

Tuesday, 18 May 2021 00:00 (15 minutes)

Silicon nitride (SiNx) is a well-known coating material, with a relatively high refractive index and very low mechanical loss. In this talk, we will present the development history of ion-beam sputtered amorphous SiNx coatings for gravitational-wave detectors at the Laboratoire des Matériaux Avancés (LMA-IP2I). As this research and development activity is still ongoing to date, we will present our most recent results and discuss the final steps of our roadmap towards the production of SiNx coatings of extremely low optical (scatter, absorption) and mechanical loss.

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