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Adsorption and Desorption on Cryogenic Mirror Surfaces in Vacuum

In-situ monitoring and a good understanding of adsorption and desorption processes on cryogenic mirror surfaces are essential for the LF interferometers of ET and for ET-Pathfinder. A working group with members from UM, TNO and KIT work on a test setup focusing on two technologies for the monitoring of the growth of monolayers on cold surfaces, ellipsometry and microbalances. This poster provides an update of the work and planned measurements. After establishing reliable and reproducible monitoring techniques, this setup can also be extended to test possible in-situ cleaning methods of mirror surfaces at cryogenic temperatures.

Primary authors: Dr SCHWENCK, Adrian; MOLKENBOER, Freek (TNO); STEINLECHNER, Jessica; WOLF, Joachim

Presenter: Dr SCHWENCK, Adrian

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