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Recent developments in surface conditioning measurements and vacuum simulations

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We present recent developments and PSD data from the FCC-BESTEX experimental beamline at the KARA synchrotron at KIT on one FCC-hh beam screen, as well as future plans for measuring FCC-ee vacuum paper prototypes at the beamline. In addition, we demonstrate VacuumCOST, a new software tool that has been developed to enable more dynamic MolFlow simulations, including the pressure evolution in case of suddenly occurring leaks, the conditioning of vacuum chamber surfaces, and the propagation of NEG coating saturation.

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