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Performance of the 4-year operation of the IMC instrumented baffle in Virgo

The suspended end mirror in the Input Mode Cleaner (IMC) cavity of the Advanced Virgo Plus interferometer was equipped with an enhanced baffle model in May 2021. This baffle is instrumented with active sensors next to the test mass to enable the monitoring of the scattered light in the cavity. We assess the performance and stability of the instrument after 4 years of operation. We study the distribution of scattered light, its evolution and show that the instrumented baffle can be used as a monitor of the laser stability and alignment in the cavity.

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