

Virgo: stable cavities and auxiliary optics

lundi 17 juin 2024 14:00 (20 minutes)

During the commissioning for the O4 observation run, the currently implemented marginally stable recycling cavities in Virgo have created difficulties with locking and alignment, as well as degrading the performances of the interferometer. Thus, for the next observation run, Virgo is planning to implement stable recycling cavities, and will pause the implementation of larger test masses for the time being. These changes impact the auxiliary optics that APC is in charge of. In this talk, I will present the work that has been done on end-bench mode-matching telescopes for the larger test masses, as well as the current work on the mode-matching telescopes for the injection and detection benches.

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Classification de Session: Contributions (15' + 5' de questions)