

Status of the Virgo commissioning: on the path towards the O4 run

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Since 2020, the Virgo interferometer has entered the phase 1 of the Advanced Virgo + project, which consists in a series of detector upgrades aiming at improving the Virgo sensitivity by up to a factor 2 for the next data taking run foreseen to start in fall 2022. Following the installation works that took part mostly in 2020, the commissioning phase started in January 2021, with multiple challenges: controlling the interferometer in its new optical configuration (dual recycled interferometer) and with an increased input power, commissioning the new frequency dependent squeezing system, and hunting the technical noises limiting the interferometer sensitivity. An overview of the status of the works previously mentioned will be given in this talk.

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