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Lesson learned from AdvancedVirgo+ ISC Commissioning

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In this work I'll present the main issues that have been discovered during the phase of Commissioning of the AdvancedVirgo+ detector. Indeed, the control of the interferometer become more complex in presence of marginally stable cavities as it is strongly affected by optical defects. Starting from the installation of the new Auxiliary Laser System, I will discuss how we tried to improve the robustness of the lock acquisition and the technical solutions we implemented to optimize the steady state control.

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