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Design and status of the NGS WFS of MAORY

We will present the results of a preliminary study aimed to find the best design solutions for the NGS WFS in preparation of the preliminary design review of MAORY scheduled for February 2018. Numerical simulations were performed to assess the best compromise between the working bandwidth and sampling of the LO WFS and the reachable sky-coverage. A preliminary opto-mechanical layout has been drawn to fulfill the technical specifications for the LO and Reference WFS. The tightest requirement in the LO WFS technical specifications is represented by the error budget imposed by astrometric observations, that turn into a positioning accuracy for the LOR WFS of about 2.4 mas when acquiring the NGS. To ensure this requirement a detailed analysis of the NGS module support structure was performed to identify the best compromise in terms of weight and stability of the mechanical structure.

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