

## Commissioning status of the new NGS WFS for GeMS

*Wednesday, October 30, 2019 10:40 AM (20 minutes)*

GeMS is the multi-conjugate adaptive optics facility in operation at Gemini South since 2013. It uses 5 laser guide stars WFSs and one up to 3 NGSs for low order correction. Recently, the AO facility of GeMS has been upgraded with a new NGS WFS to increase sky coverage, improve efficiency and ease of use. I will present in this talk the concept of NGS2, a focal plane WFS using an EMCCD camera that allows fast readout of small region of interest for TT and plate scale mode corrections. I will then present the benefit of this NGS sensor compared to its previous generation and finally a preliminary comparison and performance assessment obtained with GeMS using NGS2.

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