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Current status of SOUL at the Large Binocular Telescope

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SOUL project is the upgrade of the 4 SCAO systems at the Large Binocular Telescope with the goal of pushing the current guide star limits to about 2 magnitudes fainter - thanks to the Electron Multiplied CCD detectors. Here, we will report about the project status: both systems installed on the SX eye of LBT are now operational, while the commissioning of the DX ones is scheduled for the upcoming months. Further, we will mention some of the new technicalities introduced in order to improve both system performances and robustness. Finally, we will highlight some of the astronomical observations performed so far with SOUL, together with an eye on data reduction challenges.

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