

VST in the era of the large sky surveys



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Science with 4MOST

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4MOST is a massively multiplex multi-object spectrograph to be placed on ESO's VISTA telescope. The 4MOST survey program includes both Galactic as well as Extragalactic surveys. With its 800 high resolution and 1600 low resolution fibres distributed over a 4 degree field of view it will survey the sky down to G of about 20. This will, e.g., complement Gaia RVS for Milky Way stars and provide redshifts for galaxies. In this talk I will present the 4MOST facility and its capabilities. I will also give an overview of the surveys planned by the Consortium. The surveys span a range of topics including: studies of BAO, host galaxies for transients, galaxy clusters, galaxy evolution, the Milky Way potential and accretion history, the content of the Milky Way stellar disk, and the Magellanic Clouds. In 2019 ESO plans for a call for proposals from the Community to use 4MOST in collaboration with the Consortium. The tentative time plan and scope of this call will be discussed.

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