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Polarization patterns in the sky and their influence in astronomical observations

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The perfect conditions of an astronomical observation assume a sky free of light contamination. Moonlight sky polarization can also be a source of systematic errors in polarimetric studies and must be considered. Sun's radiation, reflected by the moon, passes through Earth's atmosphere and the light interacts with her. That leads to polarization patterns. A model to characterize the observed moonlight polarization includes the localization of the observatory, the light wavelength and the composition and density of the atmosphere. Such a model for the moonlight polarization will help plan observations and correct the background moonlight polarization.

In this talk, some of the concepts and objectives in this model's construction will be summarized and explained.

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