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Impact of the systematic effects on the modified gravity and cosmological model constraints.

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The combination of the data from upcoming large-scale structure surveys - such as the Rubin Observatory Legacy Survey of Space and Time (LSST) - and CMB lensing experiments - like the Simons Observatory - offers a powerful tool to test deviations from ΛCDM. The robustness of these tests depends on our understanding of observational and astrophysical systematics. In this talk, I will present an investigation into the systematic effects that can have influence on robustness of constraints on modified gravity and cosmological models. Specifically, I will focus on likelihood-based analyses and the biases introduced by photometric redshift errors in galaxy surveys.

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