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Optimization of Spectroscopic Tests of Fundamental Physics: from ESPRESSO to the ELT

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Studying the dark universe and fundamental physics is one of the science and design drivers of the ArmazoNes high Dispersion Echelle Spectrograph (ANDES). We have developed computational tools that can optimize the scientific return of fundamental physics tests using redshift drift and fine structure constant measurements for this instrument, separately or in combination, and also quantify the scientific impact of possible instrument configurations. This is an important result for the ANDES Phase B, making it possible to identify the key parameters for the necessary scientific trade-offs, and will ultimately lead to the definition of an optimized observing strategy. We will illustrate our analysis with some representative examples.

Presenter(s) : MARQUES (ONLINE), Catarina (CAUP/FCT-NOVA)