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(zoom) Fifteen years of fruitful collaboration between French and DOE labs in cosmology

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For the past 15 years at least, French labs (CEA-Saclay, INSU/IPA, INSU/LAM, IN2P3/LPNHE and IN2P3/CPPM) have successfully collaborated with DOE labs on wide-field spectroscopic surveys (BOSS, eBOSS, DESI). These contributions cover all the range from construction of the instrument to survey design and later data analysis. In BOSS/eBOSS, the French teams provided their expertise on the selection of the sources to target, and initiated the study of baryonic oscillations at the highest redshifts (the so-called Lyman-alpha forest data). In DESI, the French groups expanded their contribution and also played a major role in the design and construction of the 10 spectrographs. Based on this fruitful experience, the French Labs are interested in contributing to DESI-II and to a stage-5 spectroscopic survey.

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