

Litmus Tests of the flat LCDM model

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With the increase in data quality and quantity, the concordance cosmological model is under increasing tension. Therefore, it has become necessary to test the various hypotheses underlying the model: is the metric Friedman-Robertson-Lemaître-Walker? Is the Universe flat? Is dark energy the cosmological constant? Using state-of-the-arts data and analysis methods, I will show litmus tests of some of these hypotheses. I will then show how the combination of Type Ia supernovae from LSST and BAO data from the 5 years DESI survey will allow us to perform these tests.

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