

50 years of physics from Particles to the Universe



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Probing dark energy

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The discovery of the acceleration of the expanding universe in the late 1990's is one of the most exciting developments in modern physics over the last half-century. Its existence challenges some of our most basic understandings of fundamental physics. I will review the various methods we can use to derive improved constraints on this phenomenon, with particular emphasis on two major "Stage IV" experiments that are either just coming on line or nearing construction completion: the Dark Energy Survey Instrument and the Vera C. Rubin Observatory. I will also discuss the current state of the field including the latest "tensions".

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