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Sommario/riassunto	From the infinitely small to the infinitely large, covering more than sixty orders of magnitude of spatial dimension, quantum theory is invoked, both to describe the still largely mysterious vibrations of the microscopic strings which could be the elementary constituents of the Universe, that to account for the fluctuations of the microwave radiation which reaches us from the outer reaches of the cosmos. Serge Haroche presents in this lesson the scientific theory that has revolutionized our understanding of nature and extraordinarily enriched our means of action and information on the world.