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Abstract for an Invited Paper for the SES15 Meeting of the American Physical Society

The Dark Side of the Universe

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Ninety-five percent of the Universe is a mystery! Astronomical observations suggest that most of the universe is dark. The stuff out of which we are made, the visible world we see around us, seems to comprise only 5matter holds our galaxy together and a mysterious dark energy pushes the galaxies apart. The dark side of the Universe is the frontier of 21st century cosmology.