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The future of massively multiplexed spectroscopy: the Maunakea Spectroscopic Explorer JENNIFER MARSHALL, Maunakea Spectroscopic Explorer / Texas AM University — The Maunakea Spectroscopic Explorer (MSE) is a planned next generation massively multiplexed spectroscopic facility that is completely dedicated to optical and near-Infrared spectroscopy of samples of thousands to millions of astrophysical objects at resolutions from R 3,000 to R 40,000. With science goals spanning all of astronomy, from detailed chemical abundance studies of nearby stars to investigating the cosmology of the early Universe, MSE will provide key next-generation science capabilities that will revolutionize the field. In this talk I will review the current status of the project and provide an overview of MSE's wide range of scientific capabilities.

Jennifer Marshall
Maunakea Spectroscopic Explorer / Texas A
M University

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