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The present and future science program at Jefferson Lab

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The CEBAF facility at Jefferson Lab (JLab) recently completed its 12 GeV upgrade, and is now capable of delivering high intensity electron beams to all four experimental halls simultaneously. It is now in its first full year operation and will produce incredibly amount of precision data to help address some critically important 21st century science questions, e.g., what is the role of gluonic excitations in the spectroscopy of light mesons? where is the missing spin in the nucleon - the role of quark/gluon orbital motion? can we reveal a novel quark/gluon landscape of nucleon? what is the relation between the partonic structure of nuclei and the nature of nuclear force? can we discover evidence for physics beyond the standard model in low energy precision measurements? In this talk, I will briefly summarize the current activities and the planned future science programs at JLab, and its role in leading to the future era of Electron-Ion Collider.

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