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Abstract for an Invited Paper for the APR05 Meeting of the American Physical Society

## Physics Opportunities at an upgraded LHC

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I will discuss the physics potential of an upgraded LHC running at an instantaneous luminosity of  $10^{35}$  cm<sup>-2</sup>s<sup>-1</sup>. Based on the expected detector performances at high luminosity, the increased physics potential will be presented for a few specific physics cases, ranging from precise measurements within the Standard Model (in particular in the Higgs sector) to the discovery reach for several New Physics processes.