

APR05-2004-000020

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

LHC upgrade Options and Limitations

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The talk presents the main parameters for the Large Hadron Collider (LHC) and summarizes its key performance limitations. The talk compares the remaining margins for the nominal operation to the expected variation of key parameters and discusses options for a staged upgrade path for the LHC that would allow an operation beyond its original design performance.