DEUTSCHES ELEKTRONEN-SYNCHROTRON
Ein Forschungszentrum der Helmholtz-Gemeinschaft

DESY-THESIS-2013-042
September 2013

Differential Top-Quark-Pair Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV with CMS and Charge Multiplication in Highly-Irradiated Silicon Sensors

by

J. Lange

ISSN 1435-8085

NOTKESTRASSE 85 - 22607 HAMBURG