

DEUTSCHES ELEKTRONEN-SYNCHROTRON
Ein Forschungszentrum der Helmholtz-Gemeinschaft



DESY-THESIS-2016-010
May 2016

**Test Beam Measurements for the
Upgrade of the CMS Pixel Detector
and
Measurement of the Top Quark Mass
from Differential Cross Sections**

by

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ISSN 1435-8085

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