

DEUTSCHES ELEKTRONEN-SYNCHROTRON
Ein Forschungszentrum der Helmholtz-Gemeinschaft



DESY-THESIS-2023-019
December 2023

**Differential Ratio Measurements of
 $t\bar{t}\gamma/t\bar{t}$ and a Search for Exclusive $t\bar{t}$
with the CMS Experiment**

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ISSN 1435-8085

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