**DEUTSCHES ELEKTRONEN-SYNCHROTRON**
**Ein Forschungszentrum der Helmholtz-Gemeinschaft**

DESY 13–024
ANL-HEP-PR-13-12
EFI-13-2
FERMILAB-PUB-13-041-T
arXiv:1302.7033
February 2013

# MSSM Higgs Boson Searches at the LHC: Benchmark Scenarios after the Discovery of a Higgs-Like Particle

M. Carena

*Theoretical Physics Department, Fermilab, Batavia, USA*

*and*

*Enrico Fermi Institute and Kavli Institute for Cosmological Physics, Department of Physics, University of Chicago, USA*

S. Heinemeyer

*Instituto de Física de Cantabria (CSIC-UC), Santander, Spain*

O. Stål

*The Oscar Klein Centre, Department of Physics, Stockholm University, Sweden*

C.E.M. Wagner

*Enrico Fermi Institute and Kavli Institute for Cosmological Physics, Department of Physics, University of Chicago, USA*

*and*

*HEP Division, Argonne National Laboratory, Argonne, USA*

G. Weiglein

*Deutsches Elektronen-Synchrotron DESY, Hamburg*

ISSN 0418-9833

**NOTKESTRASSE 85 - 22607 HAMBURG**