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List of Acronyms

VBF vector boson fusion

ggH gluon fusion

VH vector boson associated production

ZH Z boson associated production

DM dark matter

CL confidence level

ISR initial state radiation

EFT effective field theory

PSB Proton Synchrotron Booster

PS Proton Synchrotron

SPS Super Proton Synchrotron

PU pile-up

SM standard model

BSM beyond the SM

QFT quantum field theory

ECAL electromagnetic calorimeter

HCAL hadron calorimeter

EB ECAL barrel

EE ECAL endcaps

HB hadron barrel

HE	hadron endcaps
HF	hadron forward
HO	hadron outer
L1	Level-1
HLT	high-level trigger
CSC	cathode strip chamber
DT	drift tube
RPC	resistive plate chamber
WLCG	Worldwide LHC Computing Grid
PV	Primary vertex
CTF	combinatorial track finder
DA	“deterministic annealing”
PF	Particle flow
GSF	Gaussian sum filter
BDT	boosted decision tree
MC	Monte Carlo
HPS	hadron plus strips
JES	jet energy scale
EM	electromagnetic
CJV	central jet veto
MVA	multi-variate analysis
JER	jet energy resolution
UES	unclustered energy scale
CSV	combined secondary vertex
NLO	next-to-leading order
NNLO	next-to-next-to-leading order

PDF parton distribution function

QCD Quantum Chromodynamics