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## LIST OF ABBREVIATIONS

SM	Standard Model
BSM	Beyond Standard Model
Super-K	Super Kamiokande
SNO	Sudbery Neutrino Observatory
T2K	Tokai to Kamioka
RENO	Reactor Experiment for Neutrino Oscillation
MINOS	Main Injector Neutrino Oscillation Search
NOVA	NuMI Off-axis $\nu_e$ Appearance
OPERA	Oscillation Project with Emulsion-Racking Apparatus
ICARUS	Imaging Cosmic And Rare Underground Signals
CP	Charge Conjugation Parity
KamLAND-Zen	Kamioka Liquid Scintillator Antineutrino Detector-Xenon
NEMO	Neutrino Ettore Majorana Observatory
GERDA	Germanium Detector Array
EXO	Enriched Xenon Observatory
CUORE	Cryogenic Underground Observatory for Rare Events
LSND	Liquid Scintillator Neutrino Detector
MiniBOONE	Mini Booster Neutrino Experiment
WMAP	Wilkinson Microwave Anisotropy Probe
CMBR	Cosmic Microwave Background Radiation
BBN	Big Bang Nucleosynthesis
KATRIN	Karlsruhe Tritium Neutrino Experiment
GALLEX	Gallium Experiment
LHC	Large Hadron Collider
PMNS	Pontecorvo-Maki-Nakagawa-Sakata
BAU	Baryon Asymmetry of the Universe
SS	See Saw

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DM	Dark Matter
LNV	Lepton Number Violation
CLFV	Charged Lepton Flavor Violation
LH	Left-Handed
RH	Right-Handed
SUSY	Super Symmetry
LRSM	Left-Right Symmetric Model
NDBD	Neutrinoless Double Beta Decay
TBM	Tri-Bimaximal Mixing
BM	Bi-Maximal
HM	Hexagonal Mixing
GRM	Golden Ratio Mixing
eV	Electron Volt
TeV	Tera Electron Volt
GeV	Giga Electron Volt
SSB	Spontaneous Symmetry Breaking
VEV	Vacuum Expectation Value
QED	Quantum Electrodynamics
QCD	Quantum Chromodynamics
EWSB	Electroweak Symmetry Breaking
CKM	Cabibbo-Kobayashi-Maskawa
CPT	Charge, Parity, Time reversal
GUT	Grand Unified Theory
CC	Charge Current
NC	Neutral Current
B-L	Baryon-Lepton Number
B+L	Baryon+Lepton Number
NH	Normal Hierarchy
IH	Inverted Hierarchy