

List of Abbreviations

MC	Monte Carlo
EBT	External Beam Radiotherapy
LINAC	Linear accelerator
ICRU	International commission on radiation units and Measurement
PBC	Pencil beam convolution algorithm
AAA	Analytical Anisotropic Algorithm
ENIAC	Electronic Numerical Integrator and computer
IBM	International business Machines
NIST	National Institute of Standards and Technology
ITS	Integrated Tiger Series
MCNP	Monte Carlo N-particle
GEANT	Geometry and Tracking
CERN	European Organization for Nuclear Research
PENELOPE	Penetration and Energy Loss of positrons and Electrons
EGS	Electron Gamma Shower
SLAC	Stanford Linear Accelerator center
NRC	National Research council Canada
PEASTA	Parameter Reduced Electron Stepping Algorithm
IMRT	Intensity Modulated Radiation therapy

CAD	Computer Aided Design
CM	Component Module
MLC	Multileaf collimator
PEGS	Preprocessor for Electron Gamma Shower
FWHM	Full width at half maximum
d_{\max}	Depth of maximum dose on central axis
D_{\max}	Maximum dose at central axis
Gy/inc e^-	Gray per incident electron on target
cm	Centimeter
mm	millimeter
PDD	Percentage Depth dose
SSD	Source to surface distance
FF	Flattening filter
FFF	Flattening filter free
ΔX	Lateral difference between experimentally measured and MC calculated dose profile in mm
ΔP	Lateral difference between experimentally measured and MC calculated penumbra in mm
S_{cp}	Total scatter factor