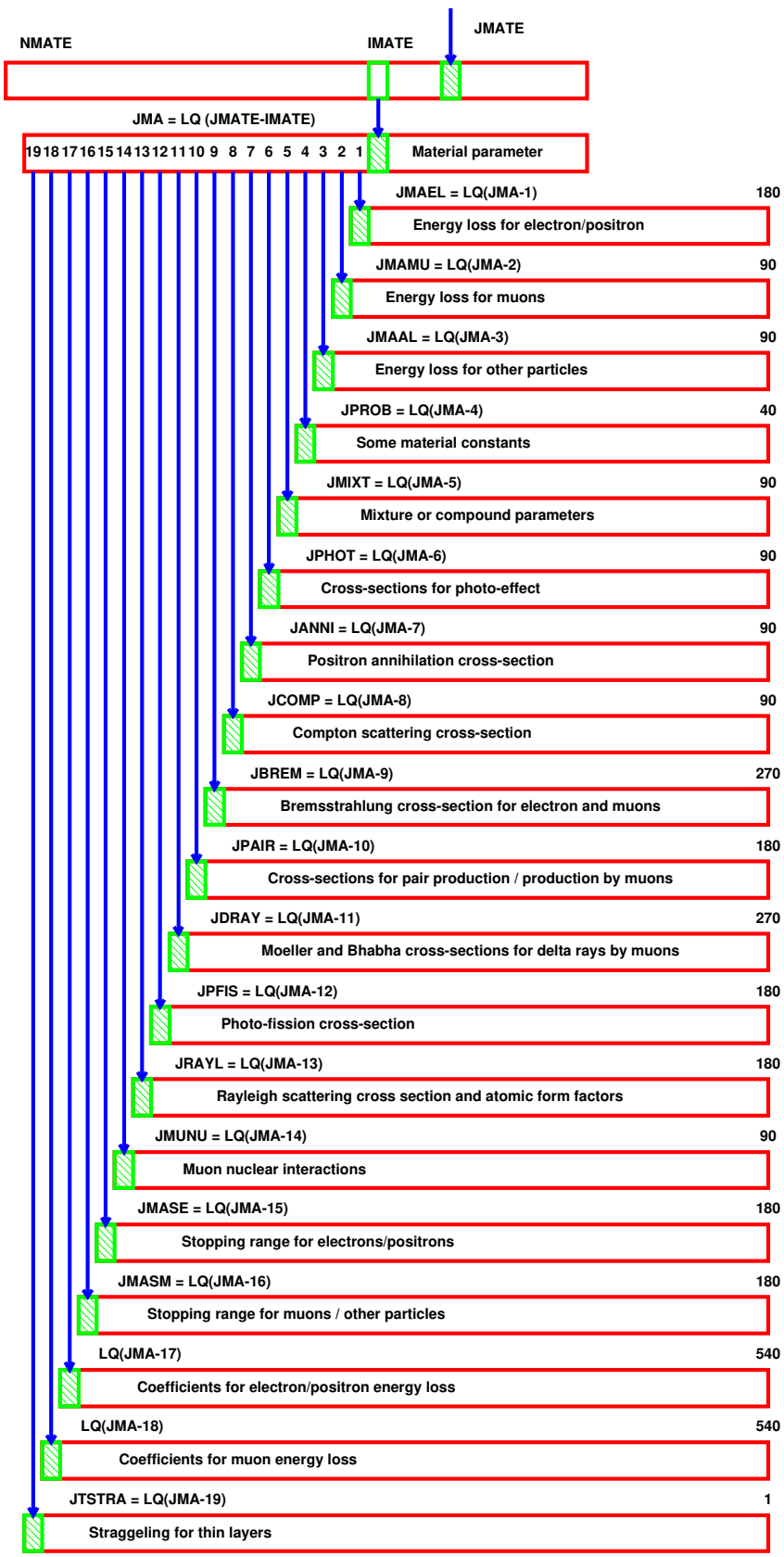
NMATE
IMATE
JMATE
JMA = LQ (JMATE-IMATE)
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
Material parameter
JMAEL = LQ(JMA-1)
180
Energy loss for electron/positron
JMAMU = LQ(JMA-2)
90
Energy loss for muons
JMAAL = LQ(JMA-3)
90
Energy loss for other particles
JPROB = LQ(JMA-4)
40
Some material constants
JMIXT = LQ(JMA-5)
90
Mixture or compound parameters
JPHOT = LQ(JMA-6)
90
Cross-sections for photo-effect
JANNI = LQ(JMA-7)
90
Positron annihilation cross-section
JCOMP = LQ(JMA-8)
90
Compton scattering cross-section
JBREM = LQ(JMA-9)
270
Bremsstrahlung cross-section for electron and muons
JPAIR = LQ(JMA-10)
180
Cross-sections for pair production / production by muons
JDRAY = LQ(JMA-11)
270
Moeller and Bhabha cross-sections for delta rays by muons
JPFIS = LQ(JMA-12)
180
Photo-fission cross-section
JRAYL = LQ(JMA-13)
180
Rayleigh scattering cross section and atomic form factors
JMUNU = LQ(JMA-14)
90
Muon nuclear interactions
JMASE = LQ(JMA-15)
180
Stopping range for electrons/positrons
JMASM = LQ(JMA-16)
180
Stopping range for muons / other particles
LQ(JMA-17)
540
Coefficients for electron/positron energy loss
LQ(JMA-18)
540
Coefficients for muon energy loss
JTSTRA = LQ(JMA-19)
1
Straggeling for thin layers