Si 1 MeV neutron equivalent fluence [cm$^{-2}$/fb$^{-1}$]

\( r \) [cm]

\( |z| \) [cm]

\( 10^{14} \)

\( 10^{13} \)

\( 10^{12} \)

\( 10^{11} \)

\( 10^{10} \)

\( 10^{9} \)

\( 10^{8} \)

\( 10^{7} \)

\( 10^{6} \)

\( 10^{5} \)

ATLAS Simulation Preliminary

Geant4, \( \sqrt{s} = 13 \) TeV