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Comparison of the German Rule PAS1078 with MCNPX Calculations

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The German publicly available specification PAS1078 from Jan. 2008 provides rules for the construction of structural radiation protection in the case of medical accelerator facilities for proton therapy. The major points of PAS 1078 will be presented. Its methods for the estimation of shielding thicknesses will be compared with the results of Monte-Carlo calculations executed with MCNPX. Especially it is aimed to compare the shielding curves for various energies, their angular dependency, and the proposed approximation method for scattering through mazes. The results shall provide suitable knowledge concerning the precision of the PAS 1078.

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