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Average and recommended half-life values for two-neutrino double beta decay: upgrade-2019

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All existing positive results on two-neutrino double beta decay in different nuclei were analyzed. Using the procedure recommended by the Particle Data Group, weighted average values for half-lives of ^{48}Ca , ^{76}Ge , ^{82}Se , ^{96}Zr , ^{100}Mo , $^{100}\text{Mo}-^{100}\text{Ru}$ ($0+1$), ^{116}Cd , ^{130}Te , ^{136}Xe , ^{150}Nd , $^{150}\text{Nd}-^{150}\text{Sm}$ ($0+1$) and ^{238}U have been obtained. Existing geochemical data were analyzed and recommended values for half-lives of ^{128}Te and ^{130}Ba are proposed. Finally, previous results [NPA 935 (2015) 52] were updated. Situation with ^{78}Kr result is discussed.

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