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## NEW NUCLEAR DATA EVALUATIONS FOR CA, SC, FE, GE, PB, AND BI ISOTOPES

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New ENDF-6 formatted nuclear data evaluations are presented for all isotopes of Ca, Sc, Fe, Ge, Pb and Bi. Apart from the resonance range, which we have adopted from the best available existing library, the nuclear data evaluations are completely revised, and extend up to 200 MeV. This collection of isotopic evaluations is created by running the nuclear model code TALYS with input parameters that deviate only slightly, or not at all, from the default values, depending on the availability of experimental data. The isotopic evaluations are thus of comparable quality. For each isotope, the same set of nuclear models is used and, equally important, the same set of ENDF-6 formatting procedures. We have intended to make these evaluations complete in their description of reaction channels, and use a compact method to store the data, which include cross sections, angular distributions, double-differential spectra, discrete and continuum photon production cross sections, and residual production (activation) cross sections including isomers. We have validated the new evaluations with criticality and shielding benchmarks, where available. The data files will be proposed for inclusion in JEFF-3.1.