A new $^{238}$U fission yields evaluation for calculations of reactor antineutrino spectra

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We present an effort to produce new FY recommended experimental values for fast fission of $^{238}$U. We explored different methods to evaluate IFYs, from simply adopting the new experimental data published since the last evaluation, to employing fission models to correct and use results from innovative experimental techniques (such as inverse kinematics) that are not traditionally included in FY evaluations. The various sets of $^{238}$U recommended values, and their effects in reactor antineutrino calculations will be discussed and compared.

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