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Objective: To read cross sections from the IAEA 2019 photonuclear data base. Demonstration of the R-package: clanENDF.

Github repository:

<https://github.com/claus-e-andersen/clanENDF>

IAEA normally starts with the total photon absorption cross section, i.e. the probability for the photon to be absorbed regardless what then happens.

Then they normally give the cross section for neutron production.

IAEA data:

<https://www-nds.iaea.org/photonuclear/>

The original ENDF-6 format file can be downloaded here:

<https://www-nds.iaea.org/photonuclear/pdfilelist.html>