

NUCLEAR DATA EVALUATION BY MICROSCOPIC OPTICAL POTENTIAL

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F. Minato¹, O. Iwamoto¹, K. Minomo², K. Ogata², N. Iwamoto¹, S. Kunieda¹ and N. Furutachi¹

¹Nuclear Data Center, JAEA, Tokai, Japan

²RCNP, Osaka Univ., Ibaraki, Japan

*Neutron Nuclear Data for LLFP &
Other unstable Nuclei*

Jet Plane

Nuclear Data Evaluation

Main Wing

Optical Model

Optical Potential

1. Phenomenological
2. Microscopic



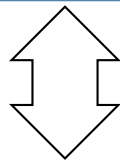
Phenomenological(Global)

Potential is given Phenomeno. Shape
Parameters fitted to EXP. data

1. *Koning-Delaroche Global Potential*

2. *Kunieda Potential (Kunieda2007)*

Not guaranteed for unmeasured region

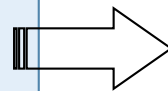


Microscopic

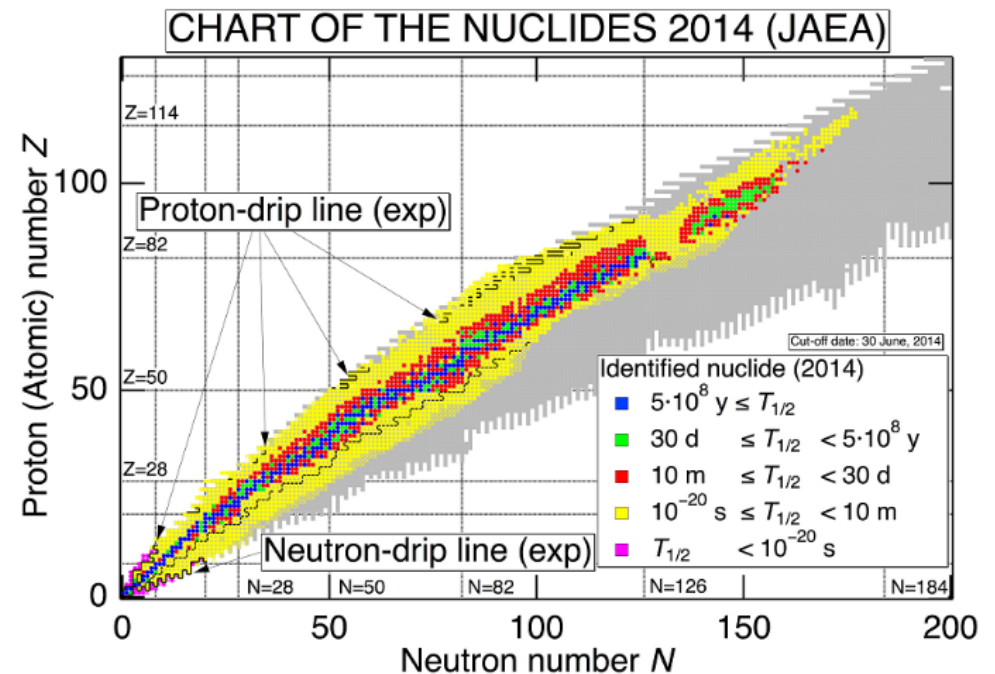
No assumption in Potential Shape

In practices,

Applicable for any nuclei and energies



have a potential to give
a reliable potential to **LLFP**

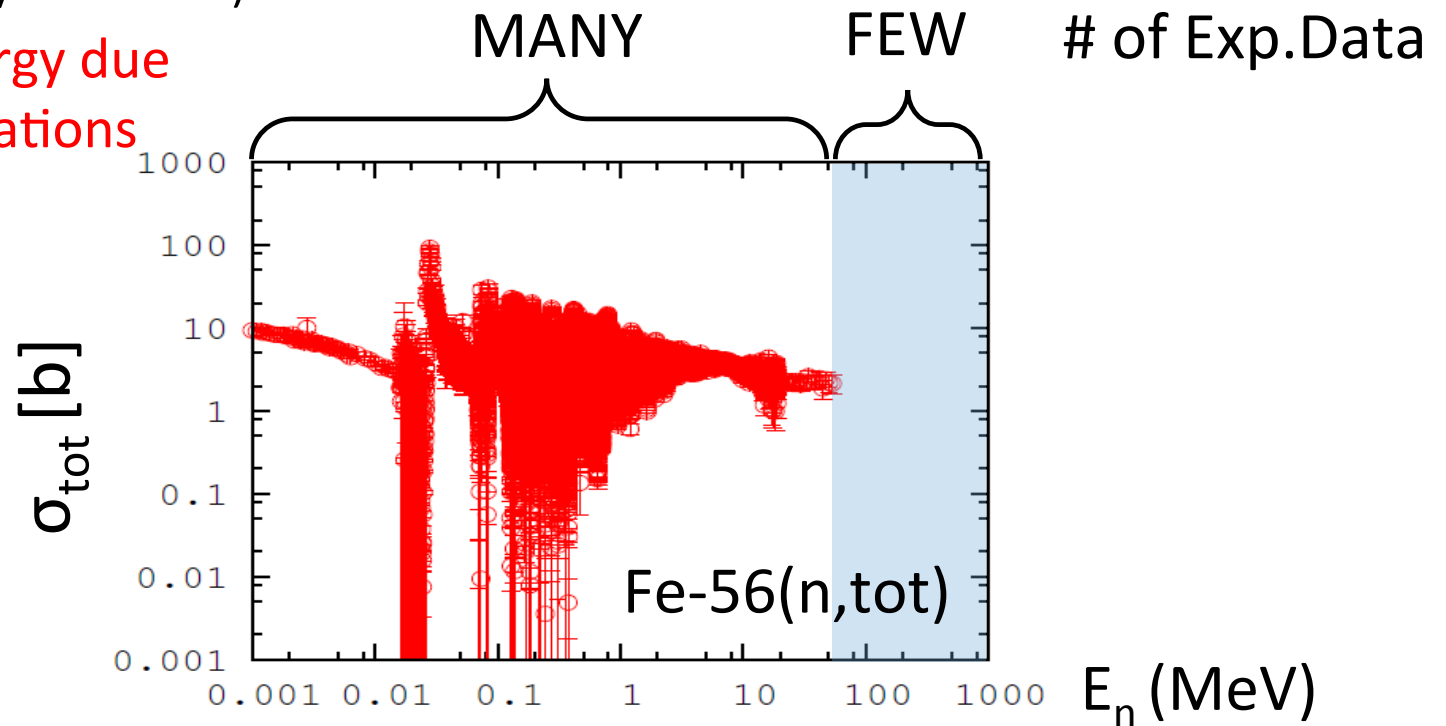


Microscopic Potential

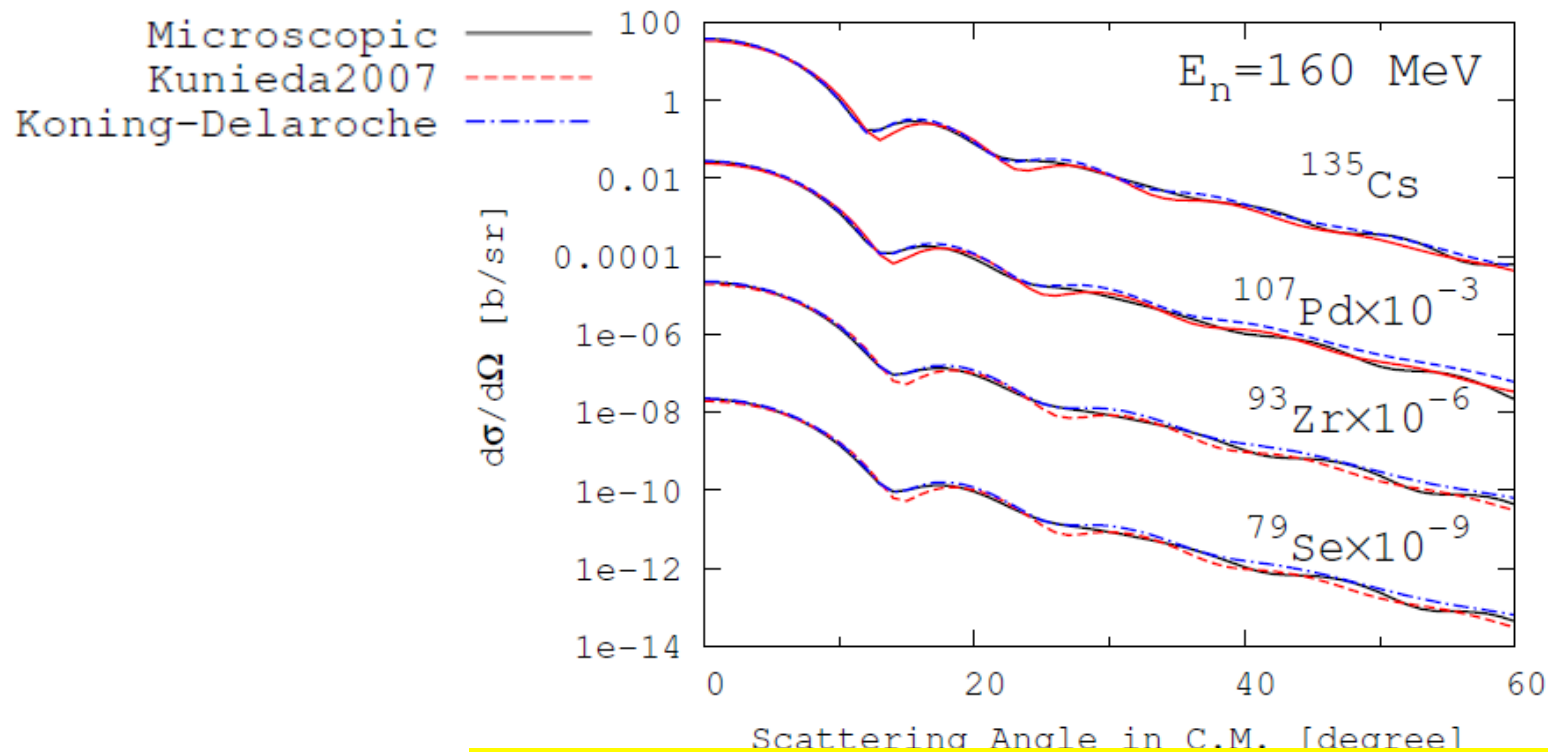
Minomo Potential

Folding model using g-matrix interaction
generated by Bonn-B interaction
(RCNP, Osaka Univ. & Kyushu Univ.)

Limited to High energy due
to some approximations



Differential Elastic Scattering Cross Sections at $E_n=160$ MeV



Poster No. S161. See you there.