Indirect Nuclear Measurement: Can we get rid of the theorists?

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Nuclear reaction rates are critical to Laboratory's mission and addressing astrophysical questions.
Do we need the theory bridge for neutron emission reactions?
My work: assessing the importance of theory for surrogate neutron-emission reactions

\[ n + ^{157}Gd \rightarrow ^{157}Gd^* + n' \]

Error of simulated surrogate experiment without theory bridge

Neutron emission | Theory-bridge required

Theorists are needed in order to apply the Surrogate Method to neutron emission reactions.
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