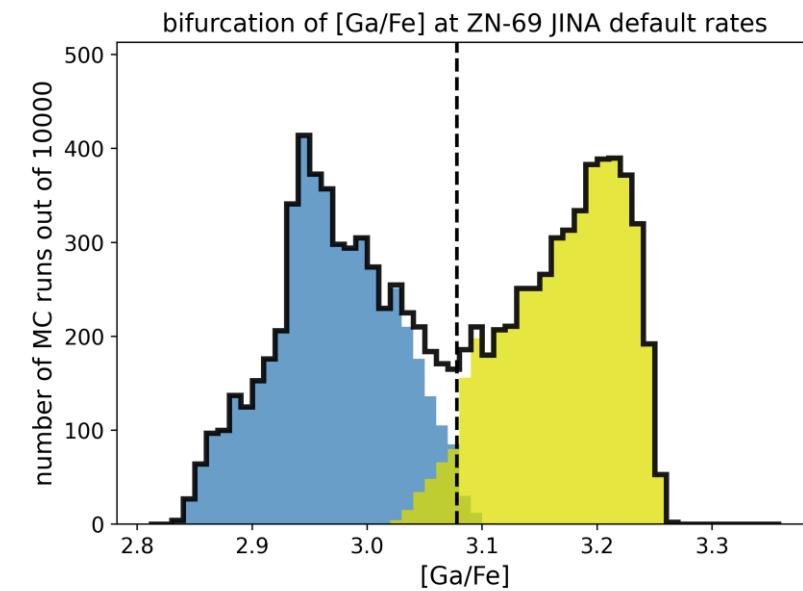


Constraining the ^{69}Zn Neutron Capture Cross-Section via the β -Oslo Method

ABSTRACT ID #52

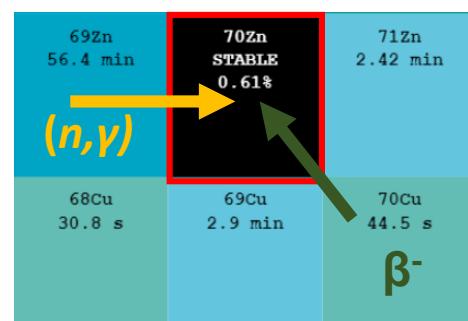
E. K. Ronning *et.al.*

Bifurcation in *i*-process abundance of Ga using $^{69}\text{Zn}(n,\gamma)^{70}\text{Zn}$ JINA REACLIB Rate

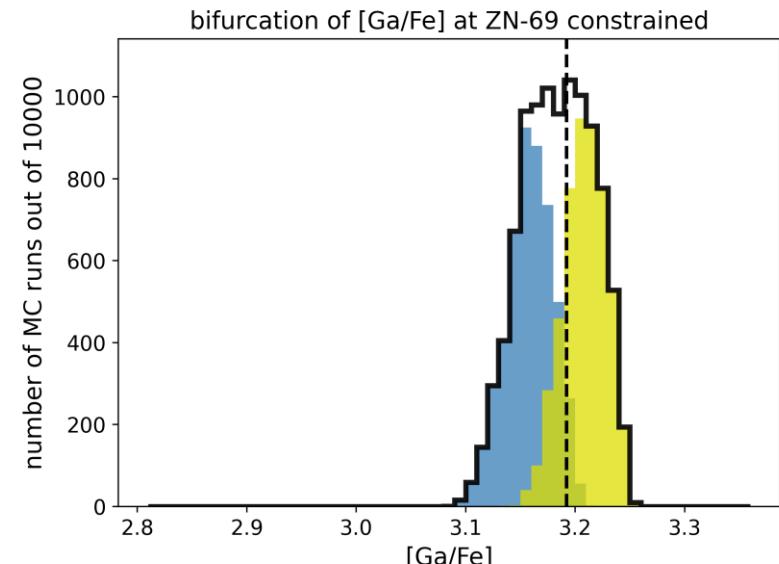


^{69}Zn is unstable
 $T_{1/2} = 56.4 \text{ min}$

Difficult to directly measure XS/RXN rate information

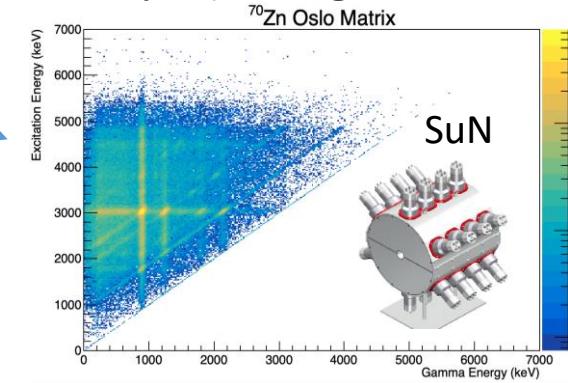


Use ^{70}Cu β -decay to indirectly constrain $^{69}\text{Zn}(n,\gamma)^{70}\text{Zn}$



i-process Ga abundance constrained with experimental $^{69}\text{Zn}(n,\gamma)^{70}\text{Zn}$ rate

Extract statistical nuclear properties (NLD and γ SF) using the Oslo method



Input NLD and γ SF into TALYS

