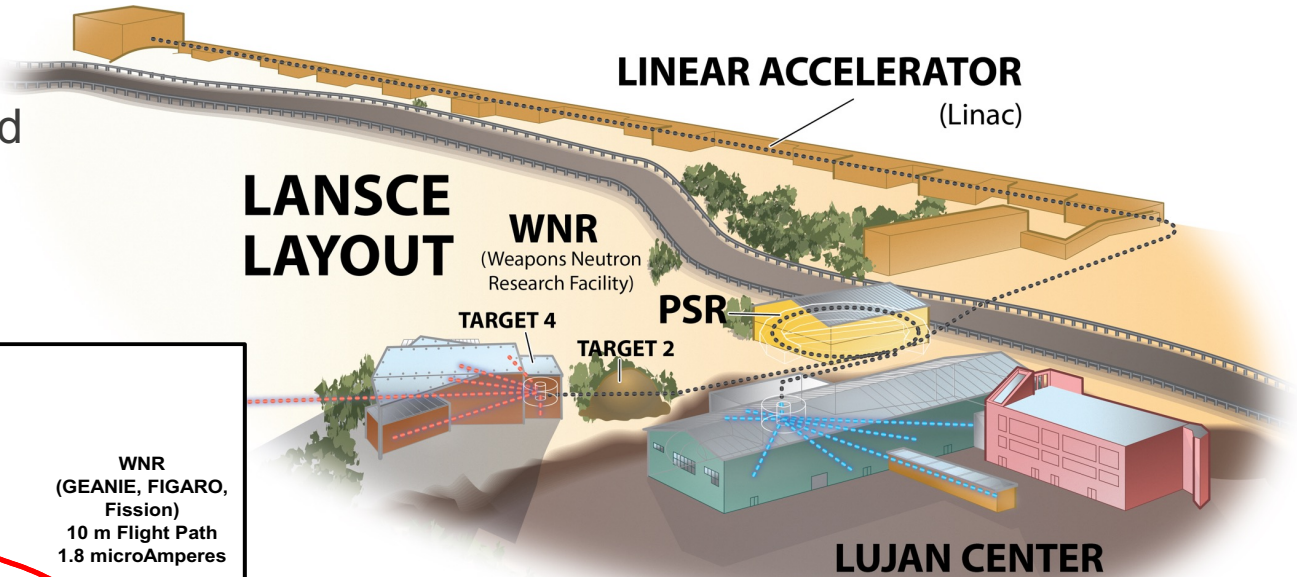
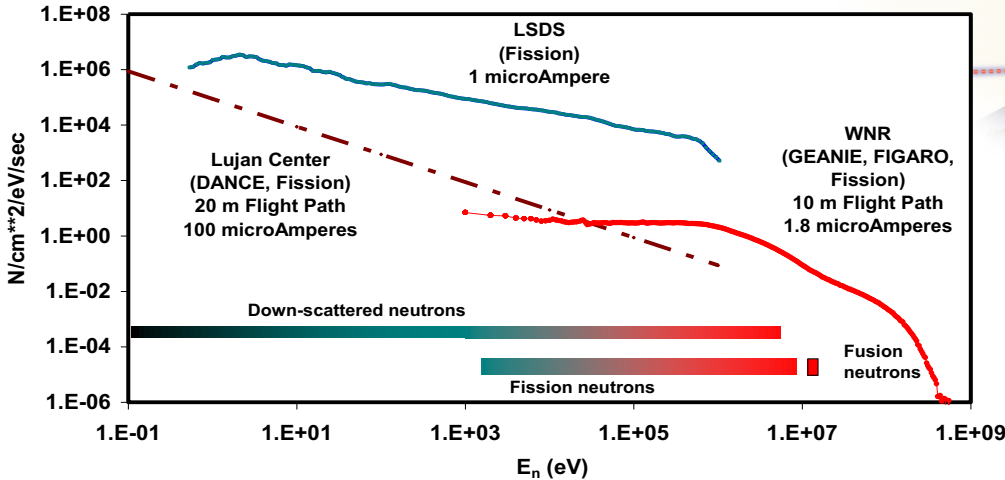


LANSCe: World's Brightest Time-of-Flight Neutron Source for Nuclear Physics

The 800 MeV proton beam is delivered onto a W spallation target to produce intense, pulsed neutron beams delivered to multiple flight-paths simultaneously



LANSCe Neutron sources



800 MeV linear accelerator: H⁺ beams for isotope production and H⁻ beams to drive two neutron beam facilities

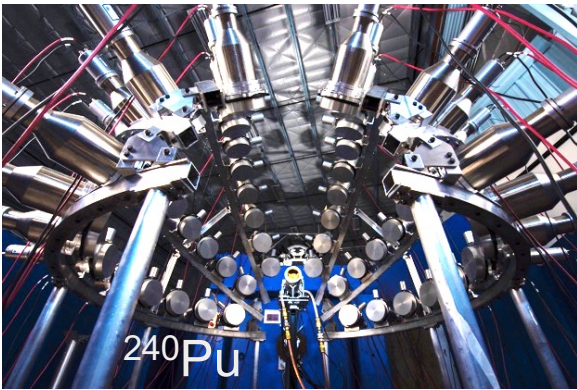
Lujan center: **Upgraded keV Flux and Resolution!** Moderated spallation source, three flight paths devoted to nuclear physics, sub-thermal $\leq E_n \leq 500$ keV

WNR: unmoderated spallation target, generating neutrons with 100 keV $\leq E_n \leq 600$ MeV

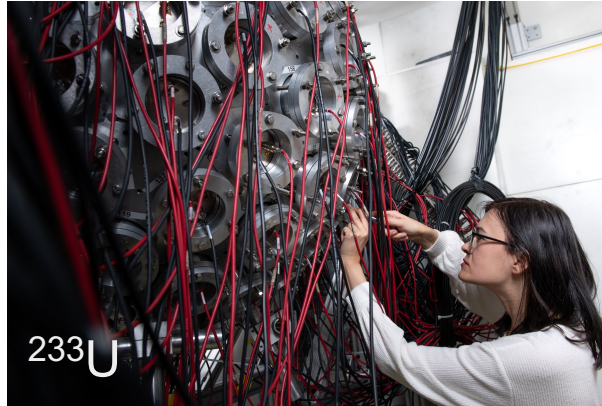
Addressing the Breadth of Neutron-Induced Reaction Channels—Focusing on **Short-Lived Isotopes**

Chi-Nu:

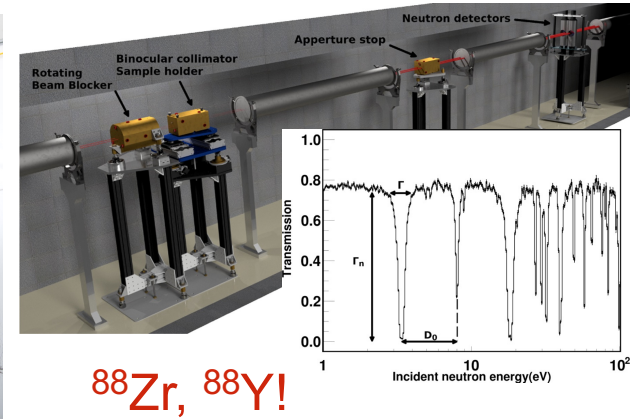
Prompt Fission Neutron Spectrum



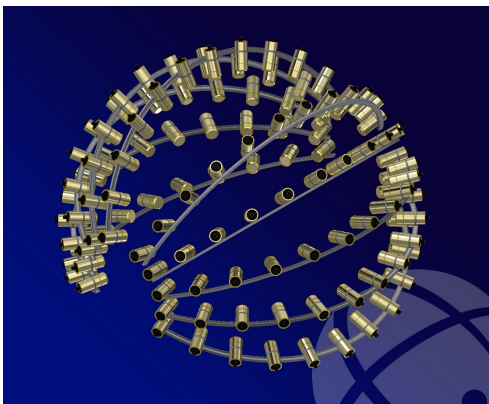
DANCE: (n,γ)



DICER: (n,tot)



CoGNAC: Scattering



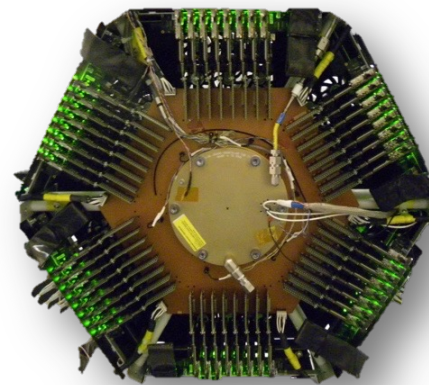
Be, C, O, Fe, Au, U

LENZ: (n,α), (n,p)



59Ni, 56Ni, 44Ti!

TPC/SREFT: (n,f)



SPIDER: Fission Products

