
 $^{64}\text{Ni}(\pi, X)$:mesic atom [1990Ku08](#)

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Balraj Singh and Jun Chen		NDS 178,41 (2021).	12-Nov-2021

[1990Ku08](#): π beam was from the Los Alamos Meson Physics Facility (LAMPF). Target was 97.93% enriched ^{64}Ni . X ray was detected with a semi-planar Ge(Li) detector. Measured pionic X ray. Deduced neutron-proton radius difference. Energy of pionic x ray (3d-2p)=413.95 keV *12* ($\Gamma=8.5$ *4* keV). Neutron-proton radius difference=0.193 fm *15*.