

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Shaofei Zhu and E. A. Mccutchan		NDS 175, 1 (2021)	1-May-2021

$Q(\beta^-)=6090$ CA; $S(n)=10310$ CA; $S(p)=1630$ CA; $Q(\alpha)=8692$ I8 [2021Zh22,2019Mo01](#)

$S(2n)=19070$, $S(2p)=1480$ (theory, [2019Mo01](#)).

$Q(\beta^-)$, $S(n)$ and $S(p)$ (theory, [2019Mo01](#)).

$Q(\alpha)$: Deduced from $E\alpha=8533$ keV I8 ([2021Zh22](#)).

[2021Zh22](#): ^{214}U was produced in $^{182}\text{W}(^{36}\text{Ar},4n)$ with a beam at 184 MeV bombarding a ^{182}W target with a thickness of 300-350 $\mu\text{g}/\text{cm}^2$; evaporation residues (ER) were separated in-flight by the the gas-filled recoil separator SHANS and implanted in three 16-strip position-sensitive silicon detectors (PSSDs) mounted side-by-side at the focal plane. ^{214}U was identified by ER-(α)-(α) time and position correlations.

 ^{214}U Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	0.52 ms +95-21	$\% \alpha=100$ Two ^{214}U α -decay events with $E\alpha=8543$ and $E\alpha=8522$ keV were identified. Production cross-section $\sigma=10$ pb +14-7.