

^{166}Ir p decay (10.5 ms) 1997Da07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 194,460 (2024)	31-Oct-2022

Parent: ^{166}Ir : $E=0$; $J^\pi=(2^-)$; $T_{1/2}=10.5$ ms 22; $Q(p)=1152$ 8; $\%p$ decay= 6.9 29

^{166}Ir - $J^\pi, T_{1/2}$: From ^{166}Ir Adopted Levels in ENSDF database as of March 2008, based on measurements by 1997Da07.

^{166}Ir - $Q(p)$: From 2021Wa16, based on proton energy measured by 1997Da07.

^{166}Ir - $\%p$ decay: From 1997Da07. $\% \alpha=93.1$ 29.

1997Da07: ^{166}Ir produced (1997Da07) by $^{92}\text{Mo}(^{78}\text{Kr}, p3n)$ reaction at $E(^{78}\text{Kr})=384$ MeV from the ATLAS accelerator at ANL.

The recoil products were analyzed by Fragment Mass Analyzer and prompt protons were identified by position, time and energy correlations between the residual nucleus, observation of decay proton and decay α particle.

[Additional information 1.](#)

 ^{165}Os Levels

E(level)	J^π	Comments
0.0	(7/2 ⁻)	J^π : from Adopted Levels.

Protons (^{165}Os)

E(p)	E(^{165}Os)	I(p)	Comments
1145 8	0.0	100	I(p): only one proton branch, interpreted as L=2, is reported.