

$^{166}\text{Ir}$  p decay (15.1 ms) [1997Da07](#)

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

Parent:  $^{166}\text{Ir}$ : E=172 6;  $J^\pi=(9^+)$ ;  $T_{1/2}=15.1$  ms 9; Q(p)=1152 8; %p decay=1.8 6

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

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

$^{166}\text{Ir}$ -%p decay: From [1997Da07](#). % $\alpha$ =98.2 6.

[1997Da07](#):  $^{166}\text{Ir}$  produced ([1997Da07](#)) by  $^{92}\text{Mo}(^{78}\text{Kr},p3n)$  reaction at E( $^{78}\text{Kr}$ )=384 MeV from the ATLAS accerator 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  $\alpha$  particle.

[Additional information 1](#).

 $^{165}\text{Os}$  Levels

E(level)	$J^\pi$
0.0	(7/2 <sup>-</sup> )

Protons ( $^{165}\text{Os}$ )

E(p)	E( $^{165}\text{Os}$ )	I(p)	Comments
1316 8	0.0	100	I(p): only one proton branch, interpreted as L=5, is reported.