

$^9\text{Be}(^{208}\text{Pb},\text{X}\gamma)$ 2011St21

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

2011St21: ^{201}Ir nuclide produced by in-flight fragmentation of 1 GeV/A ^{208}Pb beam at the GSI UNILAC and SIS-18 accelerator complex. Target thickness=2.526 g/cm², backed by a 0.223 g/cm² thick ^{93}Nb foil. Fragments identified by the Fragment Separator (FRS), based on time of flight, $B\rho$ and energy loss. The ions were slowed down in Al degraders and stopped in a plastic catcher. The stopper was surrounded by the RISING γ -ray spectrometer. Measured: $E\gamma$, $I\gamma$, delayed γ rays, isomer lifetime. Others (same authors): [2009St16](#), [2008StZY](#).

 ^{201}Ir Levels

E(level)	J^π [†]	$T_{1/2}$ [†]	Comments
0	(3/2 ⁺)	21 s 5	
0+x		10.5 ns 17	$T_{1/2}$: From sum of 440,452,681 γ (t) in 2011St21 . Experimental isomeric state population ratio $\geq 3\%$ 2 (2011St21).

[†] From Adopted Levels, unless otherwise stated.

 $\gamma(^{201}\text{Ir})$

E_γ [†]	I_γ [†]	$E_i(\text{level})$
$^{x439.6}_{\text{‡}}$	39 9	
$^{x452.0}_{\text{‡}}$	51 9	
$^{x680.9}_{\text{‡}}$	100 13	

[†] From [2011St21](#).

$_{\text{‡}}$ observed below the 10.5-ns isomer, but the ordering is unknown.

^x γ ray not placed in level scheme.