

$^9\text{Be}(^{238}\text{U},\text{X})$ 2012Ch19

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 181, 475 (2022)	1-Jan-2022

^{213}Bi nuclide was obtained from fragmentation of ^{238}U beam, $E=670$ MeV/nucleon, at the GSI heavy-ion synchrotron SIS. Target thickness= 4 g/cm². Fragments were separated in flight by the Fragment Separator (FRS) and injected into the ESR. Measured masses by Schottky Mass Spectrometry (SMS) technique. The ions produced were mainly fully-stripped (bare) or carried a few electrons. Deduced an isomer in ^{213}Bi .

 ^{213}Bi Levels

E(level)	J^π	$T_{1/2}$	Comments
0	$9/2^-$	45.59 min 6	$J^\pi, T_{1/2}$: from Adopted Levels.
1353 21			E(level): Isomer ($^{238}\text{U},\text{X}$) was identified from Schottky frequency spectrum (figure 2 in 2012Ch19). Excitation energy was deduced from Schottky frequency spectrum (figure 2 in 2012Ch19), mass measurement. 2012Ch19 mention γ decay to the ground-state was discovered in the time resolved spectrum shown in Fig. 2. $T_{1/2}$: > 168 s from single-ion tracing evaluation method (2008ChZI).