Si(p,X),C(p,X):Q 2009Mi04

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

Target=SiC.

²¹Na was produced by bombardment of a thick SiC production target, which was coupled to a surface source, with 500-MeV proton beam. The ²¹Na ions were initially transported to a special line where they were polarized using collinear laser pumping and then delivered to β -NMR apparatus and implanted into a hexagonal ZnO single crystal. An external dipole-magnetic field of B₀=0.5286 T 5 was applied parallel to the direction of polarization. The β^+ -rays from ²¹Na decay were detected by a set of six plastic scintillation counters placed at 0° and 90° relative to the external field direction.

²¹Na Levels

E(level)	\mathbf{J}^{π}	T _{1/2}	Comments	
0.0	3/2+	22.49 s 4	$\%\varepsilon+\%\beta^+=100$ Q=0.140 <i>11</i> Q: From 2009Mi04, deduced using the β -NMR technique. Value measured relative to Q(27 Na _{g.s.})=0.0072 <i>3</i> (2000Ke09). Sign of quadrupole moment is not given by this method. J, t, $\%\varepsilon+\%\beta^+$ from Adopted Levels, Gammas.	