

**Coulomb excitation 2005Ya26**

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	20-Feb-2010

Beam= $^{46}\text{Cr}$ , target=Pb.

$E(^{46}\text{Cr})=44$  MeV/nucleon beam was produced in fragmentation of  $^{58}\text{Ni}$  beam at 95 MeV/nucleon with natural Ni target using RIPS fragment separator at RIKEN. Time-of-flight and  $\Delta E$ -E techniques used for particle identification. PPACs for particle detection and DALI2 array of 116 NaI(Tl) detectors for  $\gamma$ -ray measurements. Deduced  $B(E2)$  for first excited  $2^+$  state, cross section and magnitudes of proton and neutron matrix elements ( $M_n$  and  $M_p$ ) .DWBA analysis.

[Additional information 1.](#)

 $^{46}\text{Cr}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math></u>	<u>Comments</u>
0	$0^+$	
900 10	$2^+$	$B(E2)\uparrow=0.093$ 20 (2005Ya26) $\sigma=0.46$ b 9 (2005Ya26). Magnitudes $M_n=4.4$ 1, $M_p=4.4$ 5.

 $\gamma(^{46}\text{Cr})$ 

<u><math>E_\gamma</math></u>	<u><math>E_i(\text{level})</math></u>	<u><math>J_i^\pi</math></u>	<u><math>E_f</math></u>	<u><math>J_f^\pi</math></u>
900 10	900	$2^+$	0	$0^+$

**Coulomb excitation 2005Ya26**Level Scheme