<sup>146</sup>Nd(<sup>35</sup>Cl,6n):isomer **2010Wa02** 

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2010Wa02: The measurement was performed with  $E(^{35}Cl)=210$  MeV from NLHIRFL facility in China, using a He-jet tape transport system. The  $\gamma$  counting was done using x-ray HPGe detectors, one coaxial GMX, one planar and one Segmented Clover. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$  coin, half-lives of  $^{175}Ir$  activity.

## <sup>175</sup>Ir Levels

E(level)	$T_{1/2}$	Comments
0	8.8 s 5	$T_{1/2}$ : from timing of 105.6 $\gamma$ of the decay of <sup>175</sup> Ir in 2010Wa02. $T_{1/2}$ was obtained as 13.7 s 8, but after
		fitting the decay curve with a double exponential, half-life of 8.8 s was obtained for the shorter-lived component. This activity is known from earlier studies with a half-life of 9 s 2.
0+y	33 s 4	$T_{1/2}$ : from timing of 399.0 $\gamma$ from the decay of $^{175}$ Ir (2010Wa02). The isomer is suggested by 2010Wa02 decay through 399 $\gamma$ to $^{175}$ Os. However, the previous decay dataset of $^{175}$ Ir to $^{175}$ Os (1992Sc16) didn't report the decay from an isomer.