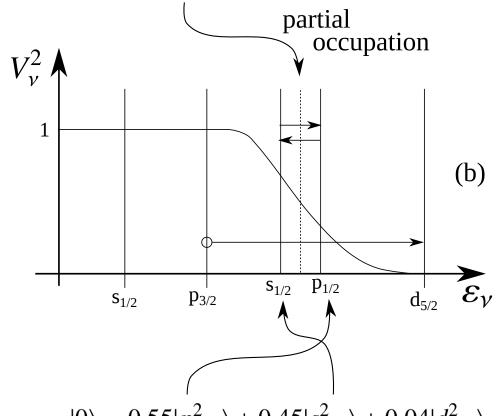


⁹Li (t,p) ¹¹Li (1⁻) eventually γ -coincidence

$$|0\rangle_{\nu} = |0\rangle + 0.7|(p_{1/2}, s_{1/2})_{1^{-}} \otimes 1^{-}; 0\rangle + 0.1|(s_{1/2}, d_{5/2})_{2^{+}} \otimes 2^{+}; 0\rangle$$



$$|0\rangle = 0.55|p_{1/2}^2\rangle + 0.45|s_{1/2}^2\rangle + 0.04|d_{5/2}^2\rangle$$

 $|1^-, \text{pigmy}\rangle = \alpha \Gamma_{\text{pigmy}}^+ |\text{halo}\rangle + \beta \Gamma_{\text{GDR}}^+ |\text{core}\rangle$

	$\alpha^2 \gg \beta^2$							
	$1p_{1/2}^{-1}2s_{1/2}$	$1p_{1/2}^{-1}3s_{1/2}$	$1p_{1/2}^{-1}4s_{1/2}$	$1p_{1/2}^{-1}1d_{3/2}$	$1p_{3/2}^{-1}5d_{5/2}$	$1p_{3/2}^{-1}6d_{5/2}$	$1p_{3/2}^{-1}7d_{5/2}$	
X	0.847	-0.335	0.244	0.165	0.197	0.201	0.157	
Y	0.088	0.060	0.088	0.008	0.165	0.173	0.138	

8% EWSR

 $E_{1^-} \approx 0.7 \text{ MeV}$