

Analysis of T=1 10B states analogue to 10Be cluster states

M. Uroić, Đ. Miljanić, S. Blagus, M. Bogovac, L. Prepolec, N. Skukan, and N. Soić
Ruđer Bošković Institute, Zagreb, Croatia

L. Acosta
Departamento de Física Aplicada, Universidad de Huelva, Huelva, Spain

M. Lattuada and A. Musumarra
INFN - Laboratori Nazionali del Sud, Catania, Italy

M. Majer and M. Milin
Department of Physics, University of Zagreb, Zagreb, Croatia

Current status of the search for T=1 cluster states in 10Be, 10B [1] and 10C is presented. The best known of the three, 10Be [2-4] has an established rotational band (6.18, 7.54 and 10.15 MeV) with unusually large moment of inertia. Status of their isobaric analogue in 10B is presented, with emphasis on 3He+11B, 7Li+6Li and 7Be+6,7Li reactions.

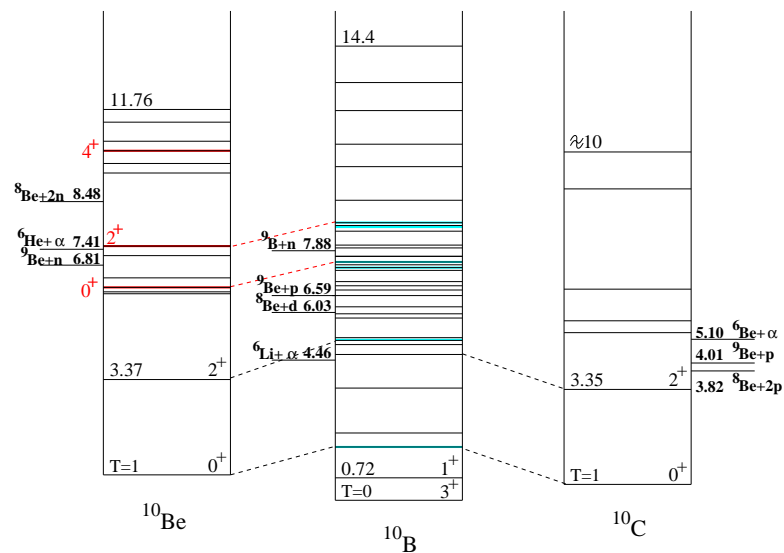


FIG. 1: A=10 isobar diagram

- [1] D.R. Tilley et al., Nucl. Phys. A **745**,(2004),155.
- [2] N. Curtis et al., J. Phys. G: Nucl. Part. Phys. **36**,(2009),015108.
- [3] N. Soić et al., Europhys. Lett. **34**,(1996),7.
- [4] M. Freer et al., Phys. Rev. Lett. **96**,(2006),042501.