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Electron capture of 8B into highly excited states of 8Be

Wednesday 5 December 2018 17:30 (2 hours)

In this talk, I will present the study of the decay of 8B into highly excited states of 8Be with the aim of determining the branching ratios. Our interest lies in the 2+ doublet at 16.6 and 16.9 MeV populated via β+ and electron capture (EC) respectively and also the so far unobserved EC-delayed proton emission via the 17.640 MeV state, that has a theoretical branching ratio of 2.3·10-8. The 2+ doublet is interesting due to the high isospin mixing [1], leading to dominant configurations as 7Li+p and 7Be+n respectively

I will discuss the aims of the experiment, the setup and I will give the results obtained so far in the analysis.

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