

Life-time measurement of ^7Be in the different chemical forms

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The decay rate of ^7Be depends on the electron density at the nucleus and therefore may vary with the chemical forms and/or pressure in the Be atom[1, 2, 3, 4]. Using a high-purity germanium detector, We have measured the electron capture decay rate of ^7Be implanted into host of C_{60} . We have found that the decay rate of ^7Be encapsulated in C_{60} varies by as much as 1% from that of ^7Be in Be metal. The experimental procedure for formation of Be@C_{60} and the results of life-time measurements will be presented in the conference.

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