— 第954回九大原子核セミナー —

講師： Benjamin F. Gibson (Los Alamos National Laboratory)

演題： Some Aspects of strangeness in few-body physics

日時： 5月17日 (金) 16:30〜

場所： 九州大学伊都キャンパス
ウエスト1号館7階 物理セミナー室3 (W1-A-723)

概 要

We nuclear theorists build computer models of nuclei and of nuclear reactions. We take the models seriously: that is, we calculate measured physical observables and attempt to understand the underlying physics. I will report some of our successes in few-nucleon (neutron and proton or baryons without strangeness) physics – primarily the tri-nucleons and the alpha particle. I will describe the successful utilization of this understanding to predict the binding energies of the heavier p-shell nuclei. Then I will address the question of whether our models of nuclei in the strangeness zero sector extrapolate to explain nuclei in the strangeness -1 sector in which the Lambda baryon plays a key role. Or are our models merely an exquisite tool for interpolation in the non-strange nuclear physics realm?

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