The Deuteron: Recent theoretical and experimental results

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Abstract

Using recent experimental measurements of the deuteron form factors and the high energy deuteron photo-disintegration data from Jefferson Laboratory, this talk will review our current theoretical knowledge of the deuteron. The talk will focus on whether or not there is direct evidence for the observation of quark degrees of freedom in the deuteron, and review our knowledge of the deuteron wave function, relativistic effects, and interaction currents.