This Week's Citation Classic


February 22, 1990

In 1946, just after World War II, I began my work as a graduate student under C.H. Collie and H. Halban at Oxford. My task was to measure the angular distribution in the photodisintegration of the deuteron. As the work progressed, we redefined the task to measuring the absolute value of the cross section. We realized that theoretically this depends upon the long distance part of the deuteron wave function and its normalization and this gave a measure of the range of nuclear forces. This work was updated by P. Marin, G.R. Bishop, and Halban1 and by W.R. McMurray and Collie.2

From 1952 to 1955 at AERE Harwell until 1961 at Harvard, I worked on nucleon-nucleon interactions, particularly with others in the field. We found in all, although I regret the far too numerous misprints, I feel happy that the book has stood up well in the 27 years since I wrote it.

...the role of the deuterons...