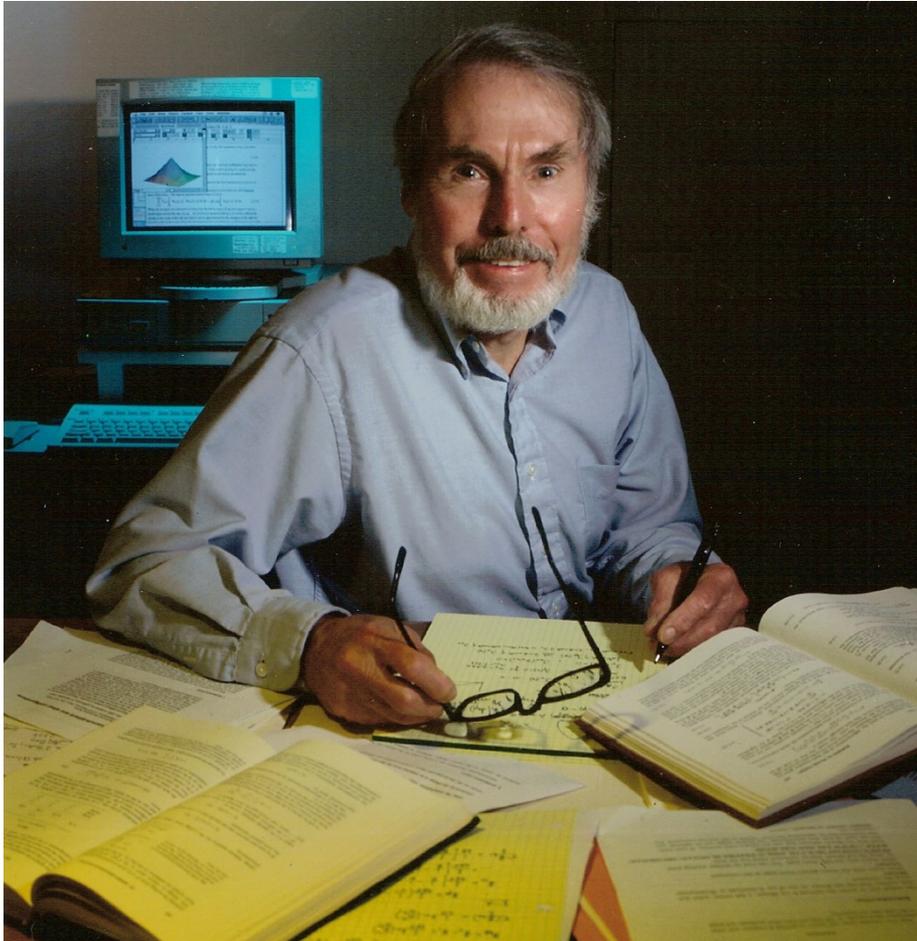


My Encounters with Dave Jackson



The Text Book

November 1974

EPS at Palermo 1975

ARNPS 1988 – 1993

Quigg Fest 2009 at FNAL

Luth Fest 2010 at SLAC

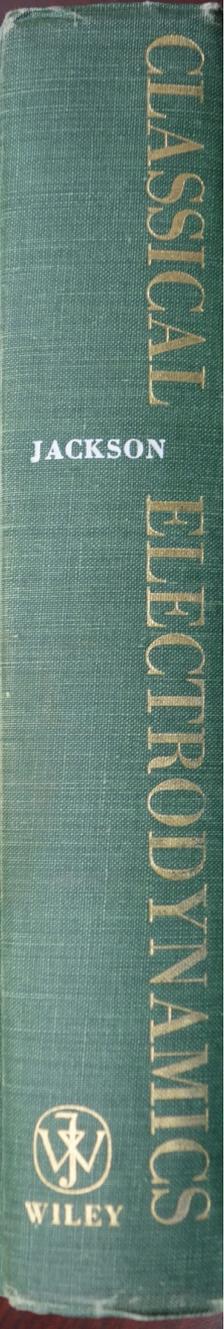
The Text Book

Like many physicists, I had my first encounter with Dave Jackson taking a two-semester course on E&M; as a 3rd year student at U. Heidelberg.

Rather than a traditional German text book by A. Sommerfeld or by Landau & Lifshitz, the recommended course book was the 1st edition of *Classical Electrodynamics* by J. D. Jackson.

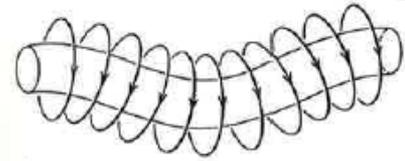
The elegant Maxwell's equations are a challenge to almost all physics students, and so was this text book. But like no other course, I enjoyed the experience of solving the problem sets and gradually understanding more and more.

Over the years, I have consulted this textbook from time to time, often finding a problem sets rather than answers to my question.



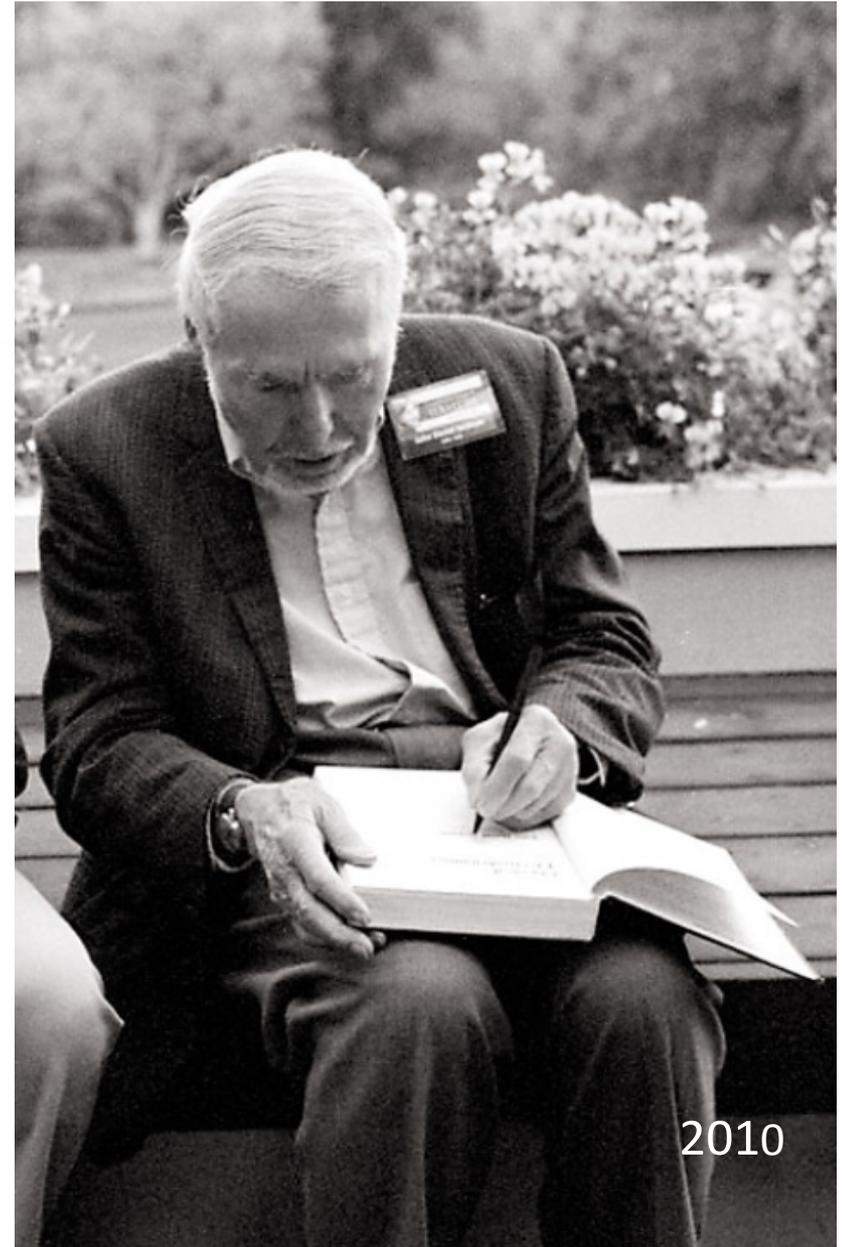
by **JOHN DAVID JACKSON**

Professor of Physics, University of Illinois



CLASSICAL

ELECTRODYNAMICS



2010

John Wiley & Sons, Inc., New York • London



The surprise of November 10, 1974

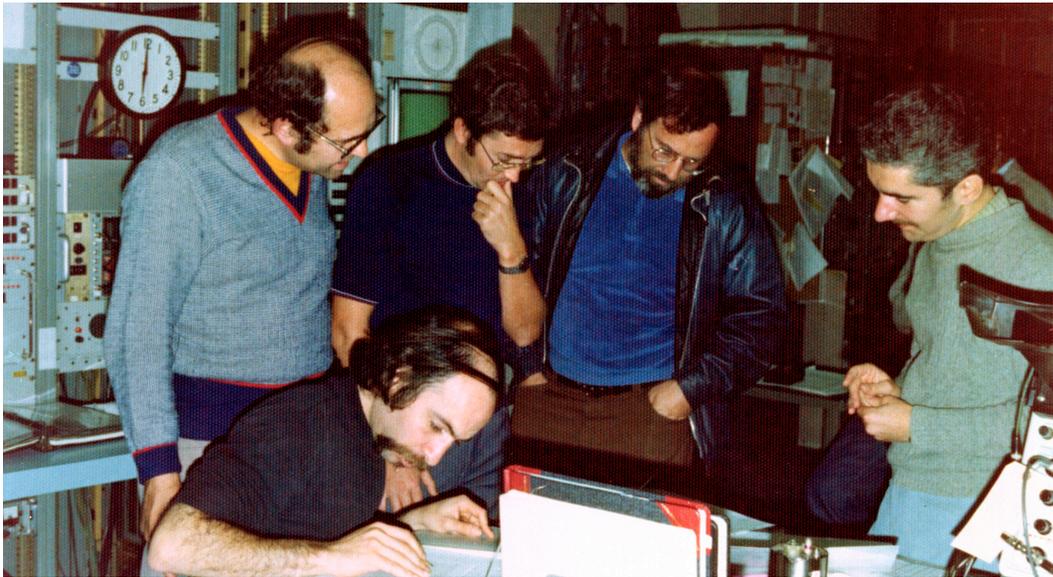
On 11/10 the SLAC-LBL Collaboration discovered a very narrow resonance at SPEAR at ~ 3.105 GeV.

We decided to call Ψ !!

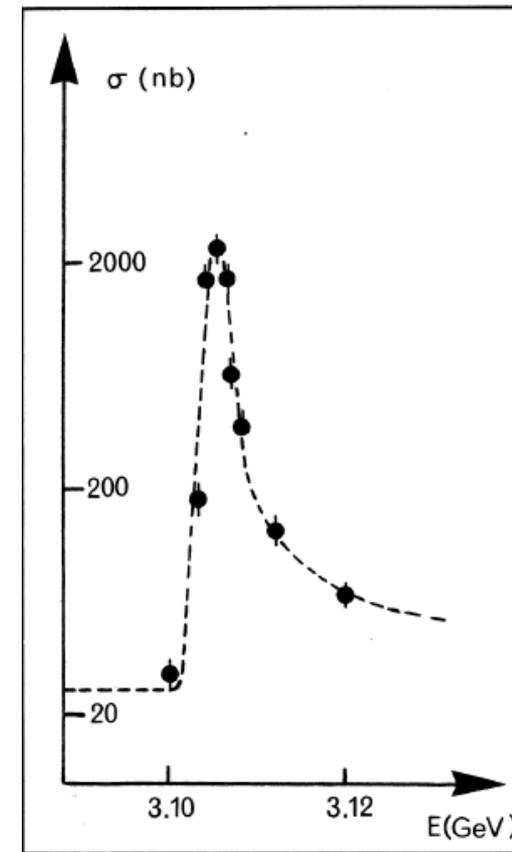
None of us had an idea what it was?

It decayed to hadrons, what was the width?

Dave Jackson worked it out overnight: <100 keV!



Marty Breidenbach, Gerson Goldhaber, Ewan Patterson,
Herman Winnik, François Vannucci



EPS Conference on HEP in Palermo 1975

The 1975 EPS Conference in Palermo was the first International Meeting after Nov. 1974, with results reported by

- S. Ting Discovery of the J
- V. Lüth Quantum Number and Decay Modes of $\Psi(3095)$ and $\Psi(3684)$
- G. Feldman e^+e^- annihilation to Hadrons at SPEAR (including anomalous lepton production, evidence in the annihilation of e^+e^- into $q\bar{q}$ with helicity 1 fragmenting into hadrons)

This was the first time, I had a chance to discuss the exciting new results with Dave Jackson, Sam Ting and many others.



EPS Conference on HEP in Palermo 1975



At the Conference: Discussion with
Dave Jackson and Gary Feldman

Followed by

- an excursion to beach!
- a trip with K. Goulianous to the
*Valley of the Temples in
Agrigento*

Annual Reviews of Nuclear and Particle Physics

ARNPS is one of 46 volumes published yearly, offering comprehensive, timely collections of critical reviews written by leading scientists in the fields of Biomedical, Life, Physical, Social Sciences and Economics!



C. Quigg

JD Jackson

Dave Jackson served as ARNPS Editor for 15 years up to 1993, when Chris Quigg took over for the following 10 years!

In 1989 Dave asked me to join ARNPS as Associate Editor, following R. Schwitters. Remembering the outstanding 3 Reviews by T.D. Lee and C.S. Wu in 1965/66, I accepted, not really knowing what this task was!

The high lights of the day-long annual editorial sessions was the give and take arguments, ending in an impressive list of topics and authors to be recruited. To be followed by the detailed scrutiny of the manuscripts and final proof reading.

JD Jackson: "Editing a review is its own reward
– and brownie points surely accumulate in heaven!"

Snap Shots in a Physicist's Life

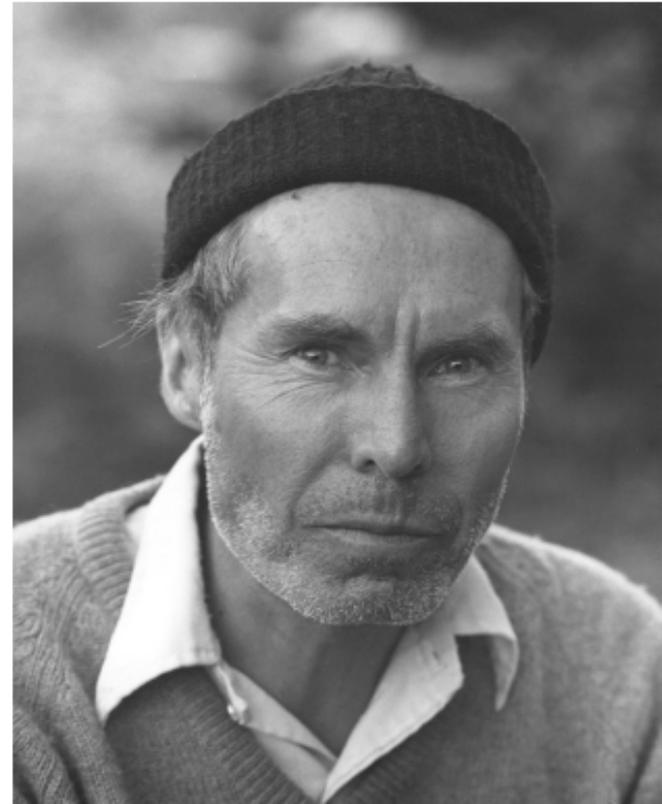


Photo by Kurt Gottfried (1978)

- Soon after Dave retired from ARNPS, he was invited to prepare a "Prefatory Chapter", which generally refers to an autobiography. It was published in 1999.
- The paper he submitted is a reminiscence of the first half of his life as a physicist, which he refers to as the "golden days of rapid and spectacular progress on a broad front". "The death of the SSC in 1993 was a signal that times had changed, at least for particle physics."
- I do not remember and wonder whether the ARNPS editor concurred with Dave's curtailed biography.

Dave Jackson's Legacy

- J. D. Jackson will be remembered as
- a highly respected and prominent scientist, revered citizen in the HEP community
 - an outstanding teacher in the class room, graduate student advisor at the forefront of theoretical physics.
 - a world-wide as the author of the principal text book for Classical E&M !
 - and last not least, as an avid supporter of women scientists !

I have very fond memories of my interactions with Dave Jackson and I truly enjoyed serving as a member of the editorial team for ARNPS under Dave.



Lecture on spontaneous symmetry breaking (Quigg Fest, Dec. 2009) : entitled: "Archimedes, Higgs, and Falling Honey."