



The virtuous circle of knowledge and innovation



The Virtuous Circle of Knowledge and Innovation

Host: **Paola Catapano**

Speakers: **Alain Aspect, Tabea Arndt,
Amalia Ballarino, Reinhold Bertlmann,
Daniela Bortoletto, Nicolas Gisin, Michele Grossi,
Jan Jakubek, Steffen Kappler, Alessandra Lombardi**



Magic Moments with John Bell

Reinhold A. Bertlmann
Faculty of Physics, University of Vienna



First Encounter



Nuclear Physics B177 (1981) 218–236
© North-Holland Publishing Company

CERN
SERVICE D'INFORMATION
SCIENTIFIQUE

MAGIC MOMENTS

J.S. BELL and R.A. BERGLMANN¹

CERN, Geneva, Switzerland

Received 30 June 1980

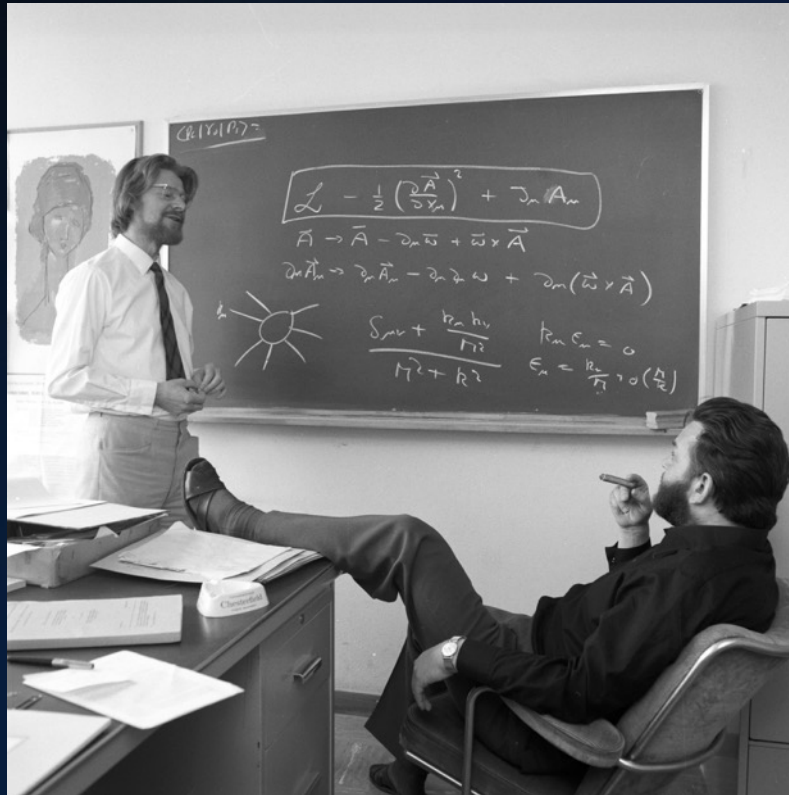
The moment method of Shifman, Vainshtein and Zakharov, for calculating bound-state energies in QCD, is tested in the context of potential models. For simple power-law potentials of low degree a refined version of the method works surprisingly well. The cruder version actually used by Shifman, Vainshtein and Zakharov for charmonium works less well, and the composite potentials usually envisaged for charmonium are less accurately dealt with than simple power potentials. We conjecture then that the magnitude of their confinement parameter ϕ has been substantially underestimated by those authors.

Tea Tasting

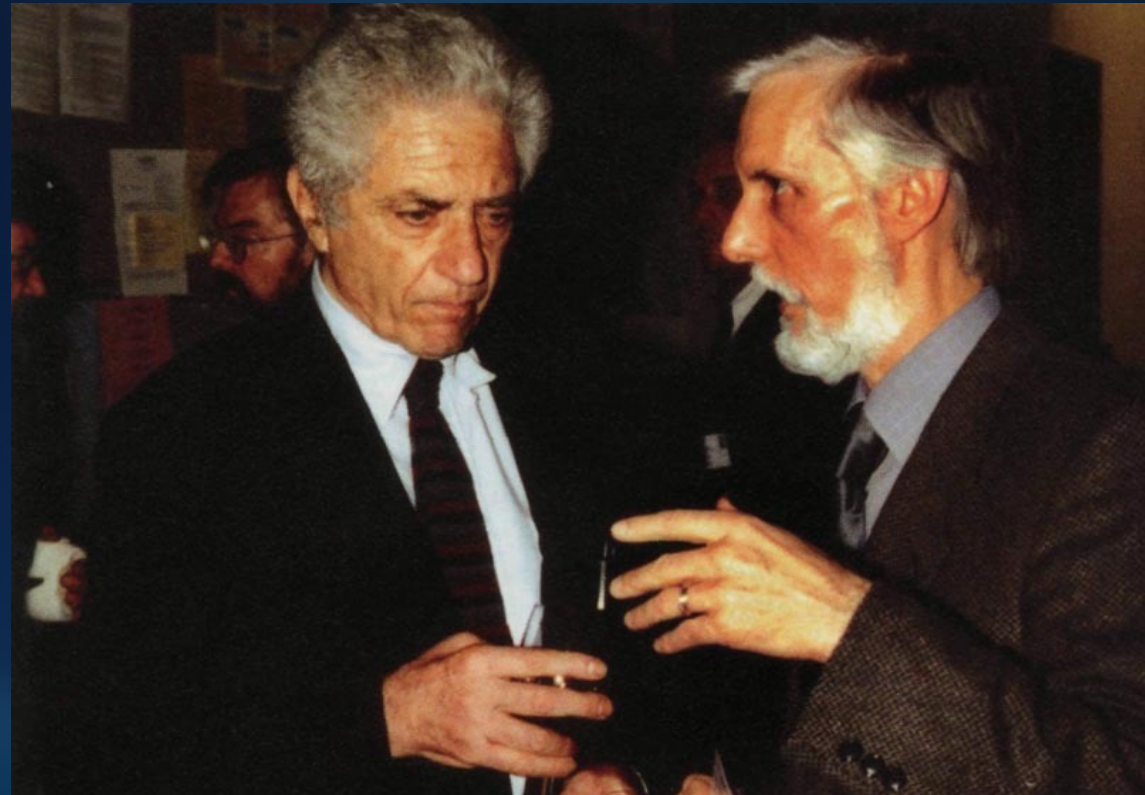


Reinhold & John

John Bell – Particle Physicist

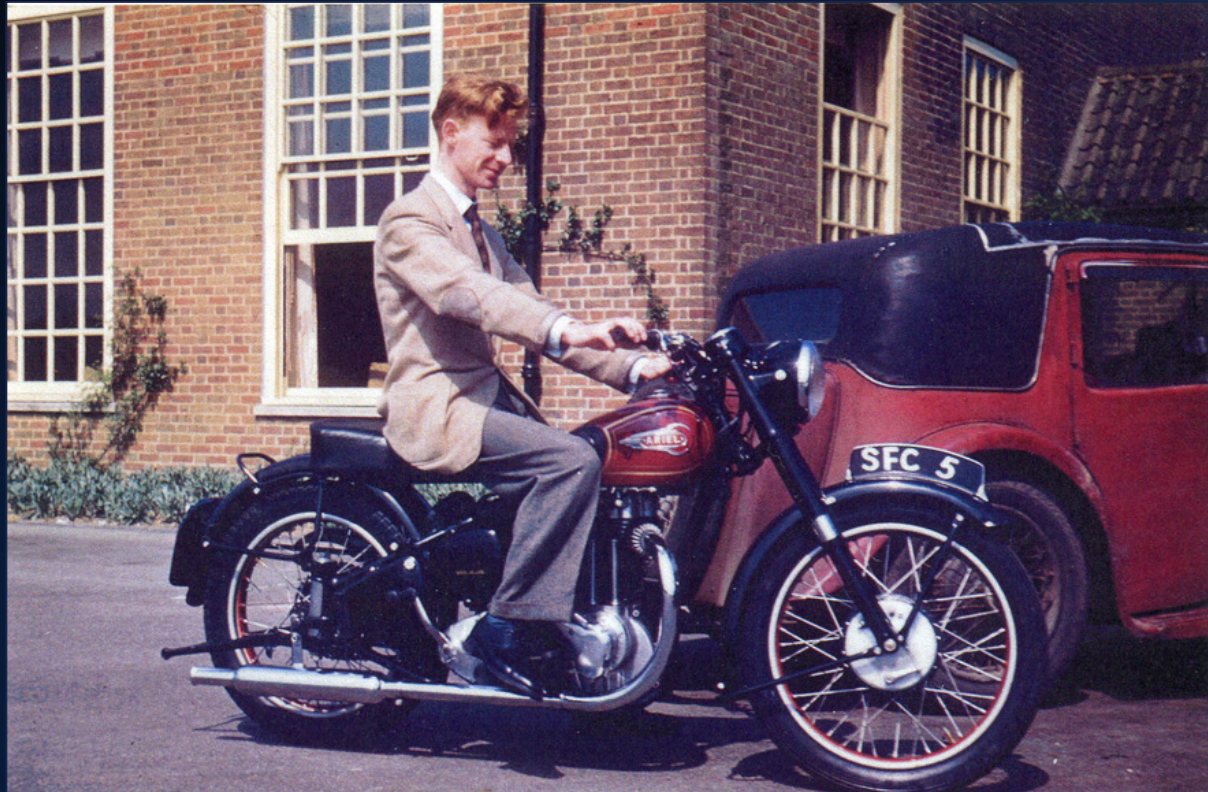


With Martinus Veltman



Bertlmann with Jack Steinberger

John Bell – Accelerator Physicist



In 1950s at Harwell



John Bell – Accelerator Physicist

Particle Accelerators
1981 Vol.11 pp.233–238
0031-2460/81/1104/0233\$06.50/0

© Gordon and Breach, Science Publishers, Inc.
Printed in the United States of America

ELECTRON COOLING IN STORAGE RINGS

J. S. BELL and M. BELL
CERN, Geneva, Switzerland

(Received February 2, 1981)

It is found that the effect of “flattening” of the electron velocity distribution is to increase the rate of cooling of small betatron oscillations by a factor of 2.4, and not by a factor of 4 as often quoted. This is when the cooler magnetic field is ignored. When it is allowed for, in the usual way, the cooling rate involves a divergent integral whose regulation depends on the details of particular cases.



With his wife Mary Bell

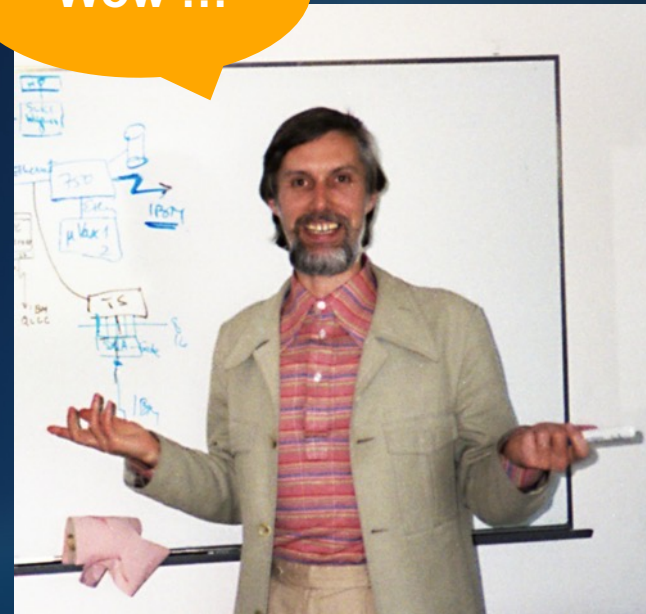
Surprise

Reinhold
look ...



Gerhard Ecker

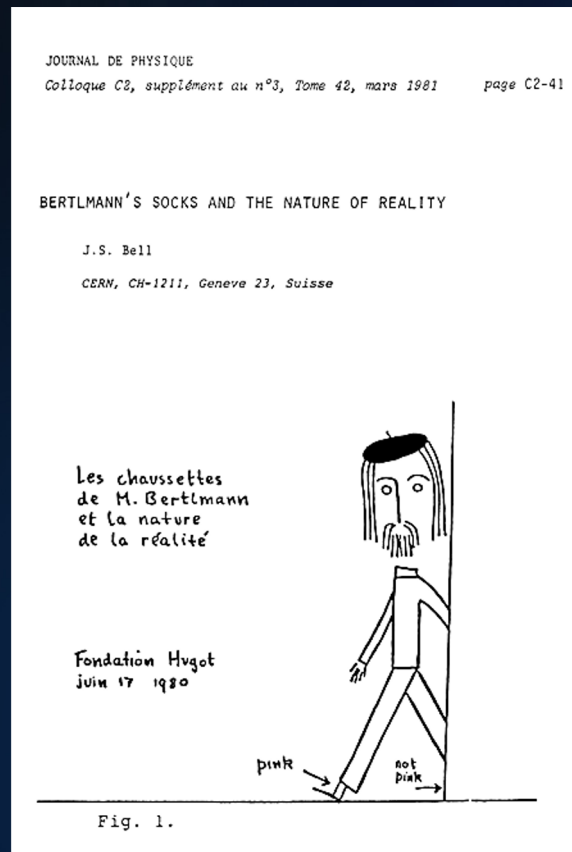
Wow !!!



Reinhold A. Bertlmann

Out of the Blue,
Vienna Summer 1980

Bertlmann's Socks



“Dr. Bertlmann likes to wear two socks of different colours. Which colour he will have on a given foot on a given day is quite unpredictable. But when you see that the first sock is pink you can be already sure that the second sock will not be pink.”

“Observation of the first, and experience of Bertlmann, gives immediate information about the second.”

“And is not the EPR business just the same?...”

No !!