



Solvay Colloquium

Professor François Englert
(ULB, Brussels, Belgium)



The Brout-Englert-Higgs mechanism and its scalar boson

A consistent approach to short range interactions from gauge vector fields acquiring mass through a generalisation of spontaneous symmetry breaking was proposed by Robert Brout and me, and independently by Peter Higgs. I shall explain our motivations for constructing this BEH mechanism which also gives information on the origin of elementary particle masses. I shall discuss its content and its use. I will comment on the ATLAS and CMS discovery at CERN of its predicted scalar boson: I will show how this discovery confirms the validity of the mechanism and how it may have implications on structures at yet unexplored energies.

Tuesday 13 May 2014 at 4.00 P.M.

COFFEE AND TEA WILL BE SERVED AT 3.45 P.M. IN FRONT OF THE SOLVAY ROOM

SOLVAY ROOM

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BOULEVARD DU TRIOMPHE - ACCESS 2
1050 BRUSSELS



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