



**DIPARTIMENTO DI FISICA "E.Fermi"**

UNIVERSITÀ DI PISA  
**CORSO DI DOTTORATO**

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Prot.

Pisa, 26/02/03

## **CORSO DI DOTTORATO IN FISICA**

# **Prof. R.Barbieri**

*Scuola Normale Superiore*

Terrà un seminario su:

## **"Rottura della simmetria elettrodebole"**

Venerdi 4 aprile 2003 - ore 15:30  
aula F - Dip. di Fisica

**Abstract:** While the identity of their basic gauge nature can be considered established, the physics underlying the different behavior of the photon and of the intermediate weak bosons is still unknown. This goes under the name of ElectroWeak Symmetry Breaking problem. Most likely, the so-called Standard Model of the elementary particle interactions only offers an effective phenomenological description of EWSB. The solution of this problem is preliminary and central to any possible unified view of the interactions among the elementary particles, including gravity. Experimentally, its investigation is at the core of the program of the Large Hadron Collider, under construction at CERN in Geneva.

I will review the present status of the EWSB problem.