

## Lecture by Martinus Veltman

Written by Administrator  
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On January 9, 2014 at 5:30 pm, Nobel Prize-winner Martinus Veltman gave a public lecture on the Higgs particle at the Simons Center in the Della Pietra Lecture series. Professor Veltman was visiting to attend "Aspects of Supergravity", the conference in honor of Peter van Nieuwenhuizen. More information [at http://scgp.stonybrook.edu/archives/9540](http://scgp.stonybrook.edu/archives/9540) .



Professor Veltman together with Professor 't Hooft won the 1999 Nobel prize in physics. The theory of these interactions is a part of what is now known as the "standard model" of particle physics. (Some of the agreement between theory and experiment is as good as the agreement between New York to Los Angeles to 1/50 of an inch.) All of the particles postulated in this theory have been found in experiments in the 1970s and 1980s. There was one missing ingredient however, the Higgs boson. Theoretically, the Higgs boson, through its interactions with the other particles, gives them mass. If there were no such boson or some other phenomenon functioning in the same way, all particles would be massless. Until last year when it was discovered in the Large Hadron Collider at CERN in Geneva. Professor Veltman will discuss the significance of the Higgs boson in standard model.

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