

**Title:** " Double Simplex"

Visualizing elementary particles and their interactions

**Lecturer:** Prof QUIGG, C

**Date and Time:** 4<sup>th</sup> August at 14:00

### **Summary of the proposed talk**

The double simplex is a new way to envision the particles and interactions through a three-dimensional construction intended to serve as an invitation to narrative and a spur to curiosity. My goal is to represent what we know is true, what we hope might be true, and what we don't know. Constructing the double simplex expresses the spirit of play, of successive approximations, that animates the way scientists work.

### **Prerequisite knowledge and references**

Preceding lectures in the CERN Summer Students program. A short write-up is, "The Double Simplex," <http://arxiv.org/abs/hep-ph/0509037>. Similar slides at <http://www.hep.caltech.edu/seminars/monday/talks/2006/winter/Quigg.mov>.

## **Biography**

**Professor Chris Quigg:**

*Brief CV:*

FERMILAB THEORIST CHRIS QUIGG is internationally known for his studies of heavy quarks, insights into electroweak symmetry breaking, and explorations of supercollider physics.

He has been Visiting Professor at École Normale Supérieure in Paris, Cornell University, and Princeton University; Erwin Schrödinger Professor at the University of Vienna; and Scholar-in-Residence at the Rockefeller Foundation's Bellagio Study and Conference Center in Italy.

A member of the Fermi National Accelerator Laboratory staff since 1974, Chris Quigg was for ten years Head of the Laboratory's Theoretical Physics Department. He served as Deputy Director of the Superconducting Super Collider Central Design Group in Berkeley from 1987 to 1989.

Professor Quigg received his Bachelor of Science degree in 1966 from Yale University and his Ph.D. from the University of California at Berkeley in 1970.

He is a Fellow of the American Association for the Advancement of Science and of the American Physical Society, and was awarded an Alfred P. Sloan Research Fellowship. The author of a celebrated textbook on particle physics, he edited the Annual Review of Nuclear and Particle Science from 1994 to 2004.

He is a frequent visitor to CERN and regular participant in the summer student lecture program.