



Columbia University Department of Physics

Theory Seminar

"SO(8) symmetry and triality of N=2 super Yang-Mills and the 2d/4d correspondence"

After briefly reviewing the correspondence between 2d conformal field theories and 4d superconformal gauge theories, I will discuss how the global symmetry of N=2 super Yang-Mills theory with N_f=4 flavors in d=4 dimensions can be seen to emerge from the Liouville theory description via the so-called Alday-Gaiotto-Tachikawa correspondence. This represents a non-trivial check of the conjectures involved as it follows from a priori unexpected identities of Liouville theory. I will also comment on recent attempts to describe non-fundamental surfaces operators within this framework.



Gaston Giribet, University of Buenos Aires

Monday, October 8, 2012 / 2:10 PM / 831 Pupin Hall