

## Remote talk - Critical Points of Random Super-potentials and Spin Glasses (T: 50mn + Q: 10mn)

*mardi 10 mai 2022 15:00 (1 heure)*

In the early 2000s, one often heard that the vacuum counting problem in string theory was like a spin glass problem. My talk will review results of Douglas, Shiffman, and myself on probabilistic methods for counting vacua of certain string theories. I then review some more recent results by various mathematicians on critical points of  $p$ -spin Hamiltonians. These results do not seem to be well known to physicists but may have analogs for string theory vacua.

**Orateur:** Prof. ZELDITCH, Steve (Northwestern University)

**Classification de Session:** Afternoon chair: Adel Bilal