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**Wei-Kuo Chen\*** ([wkchen@math.uchicago.edu](mailto:wkchen@math.uchicago.edu)), Dept of Math, U of Chicago, 5734S, University Ave, E414, Chicago, IL 60637, and **Antonio Auffinger**. *On the uniqueness and properties of the Parisi measure.*

Spin glasses are disordered spin systems originated from the desire of understanding the strange magnetic behaviors of certain alloys in physics. As mathematical objects, they are often cited as examples of complex systems and have provided several fascinating structures and conjectures. This talk will be focused on one of the most famous mean-field spin glasses, the Sherrington-Kirkpatrick model. We will present results on the conjectured properties of the Parisi measure including its uniqueness and quantitative behaviors. This is based on joint works with A. Auffinger. (Received January 19, 2015)