1117-46-269   **Beatrice-Helen Vritsiou*** (`vritsiou@umich.edu`), Department of Mathematics, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109-1043, and **Jordan Radke**. *On the thin-shell conjecture for the Schatten classes.*

In this talk we will present two main results concerning the thin-shell conjecture for the Schatten classes. The first result entails the truth of the conjecture for the operator norm, as well as an improved estimate, compared to the best thus far known bound for the Schatten classes due to Barthe and Cordero-Erausquin, for a few more cases. The second result is that a necessary condition for the conjecture to be true for any of the Schatten classes is a rather strong negative correlation property. We plan on discussing a couple of implications of, as well as giving some sort of justification for, this negative correlation property.

This is joint work with Jordan Radke. (Received January 15, 2016)