

**Institute for Applied Mathematics, Bonn University**

## **Oberseminar Stochastik**

**Thursday, 05 June 2025, 16:30**

**Lipschitz-Saal (LWK 1.016)**

**Meredith Shea**

**Vassar College**

## **Split Two-Periodic Aztec Diamond**

Over the past 25 years, dimer models have been an active area of research at the intersection of probability and mathematical physics. However, a majority of the work studying dimer models has been restricted to periodic cases. In this talk, I will introduce a non-periodic dimer model which I call the split two-periodic Aztec diamond. I will discuss how the correlation kernel of the model can be derived and how the scaling limit behavior of the model relates to the typical two-periodic Aztec diamond. Time permitting I will discuss extensions of this model.