

**Speaker:** James Newton

**Title:** Symmetric power functoriality for modular forms

**Abstract:** I will discuss some joint work with Jack Thorne on the symmetric power lifting for modular forms. We prove the existence of all symmetric power lifts for holomorphic Hecke eigenforms. We previously obtained this result with an extra assumption on the ramification of the modular form (for example, square-free level), but can now remove this.