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**CHENXI WU**, UW Madison

*Sub shift of finite types induced by linear order*

I will discuss some monotonicity results of the poles of Artin Mazur zeta functions for certain families of sub shifts of finite types, generalizing previous results I had with Kathryn Lindsey, Harrison Bray, Diana Davis and Giulio Tiozzo on the Galois conjugates of conjugates of polynomial core entropies. I will also discuss ongoing work that looks at possible applications to p-adic dynamics.