**Title:** Differentiability of the diffusion coefficient for a family of intermittent maps

**Abstract:** It is well known that the Liverani–Saussol–Vaienti map satisfies a central limit theorem for Hölder observables in the parameter regime where the correlations are summable. In this talk we show that for $C^2$ observables, the variance of the limiting normal distribution is a $C^1$ function of the parameter.