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*Correlations of Riemann Zeta on the critical line*

In this talk we will cover the correlations of the Riemann Zeta in various ranges on the critical line. We will discuss Motohashi's formula for the fourth moment on average, and the connection of the so-called moments of moments of the Riemann Zeta with its maximum in short intervals. We will also discuss and prove a conjecture of Bailey and Keating.