

Ito formulae for singular SPDEs

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During the last years, the theory of regularity structure has become a complete theory to prove the existence and uniqueness of a wide family of stochastic partial differential equations. In this talk, we will discuss how to combine this theory with other probabilistic constructions to derive some explicit Ito formula on a particular class of equations. We will focus on the additive stochastic heat equation with additive noise and the well-known KPZ equation.