

1173-60-247

**Daniel Conus\*** ([daniel.conus@lehigh.edu](mailto:daniel.conus@lehigh.edu)). *Intermittency properties for SPDEs driven by a fractional-type noise: the Dobric-Ojeda noise.*

In this talk, we will establish intermittency properties for a family of Stochastic Partial Differential Equations driven by a multiplicative Gaussian noise that has similar asymptotic properties as fractional Brownian motion in time and (possibly) some covariance in space. This noise is known as Dobric-Ojeda noise. The solutions exhibit similar properties as the solution to the SPDEs driven by standard fractional noise, in particular when it comes to upper- and lower-bounds on moments. Yet this noise allows to work with Walsh integration techniques and can thus be studied with fewer technical tools than standard fractional noise. We will illustrate in what aspects this noise and the corresponding solutions are similar to regular fractional noise and in what aspects they differ. Examples include the stochastic heat and wave equations. This is joint work with Ruxiao Qian and Mackenzie Wildman. (Received September 21, 2021)