1077-60-1461 **Davar Khoshnevisan*** (davar@mah.utah.edu), Department of Mathematics, University of Utah, Salt Lake City, UT 84112. Correlation-length bounds, and estimates for intermittent islands in parabolic SPDEs.

We consider the nonlinear stochastic heat equation in one dimension. Under some conditions on the nonlinearity, we show that the "peaks" of the solution are rare. We also provide an upper bound on the length of the "islands", the regions of large values. These results are obtained by analyzing the *correlation length* of the solution.

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