1138-60-157 **Ben Jaye*** (bjaye@clemson.edu), Clemson University, Clemson, SC 29631. On the probability that a stationary Gaussian process with spectral gap remains non-negative on a long interval.

Let f be a continuous stationary Gaussian process on \mathbb{R} whose spectral measure vanishes in a δ -neighborhood of the origin. We shall prove that the probability that f stays non-negative on an interval of length L is at most $e^{-c\delta^2L^2}$ with some absolute c > 0 and that the result is sharp without additional assumptions. Joint work with Naomi Feldheim, Ohad Feldheim, Fedor Nazarov, and Shahaf Nitzan. (Received February 08, 2018)