# WHY IS THE FREQUENCY DISTRIBUTION OF SO MUCH TIME SERIES DATA NEAR $1/f$?

PRISCILLA GREENWOOD

A real-valued stationary time series is said to produce $1/f$ noise if the power spectral density is like $1/f$ on a long frequency interval. A question of interest since shot noise was noticed in the 1920's is the title of this talk. I will present some progress toward a general construction to explain such data and indicate some of the remaining questions.