

1106-VL-2652 **Pablo U Suarez*** (psuarez@desu.edu), Delaware State University, 1200 N Dupont Hwy, Dover, DE 19901. *On the Fokker-Planck equation for a coupled system of van-der Pol Oscillators*. Preliminary report.

This work is motivated by applications to laser dynamics and, more generally, to microwave oscillators. We discuss the Fokker-Planck equation that comes from a coupled system of van-der Pol Oscillators in the presence of multiplicative and additive gaussian white noise. The steady state probability density function is obtained and some numerical results are presented for the transient probability density function. (Received September 16, 2014)