

1077-60-915

Fariborz Asadian* (asadianf@fvsu.edu), Fort Valley State University, Department of Mathematics & Computer Science, 1005 State University Drive, Fort Valley, GA 31030. *Stochastic Differential Equations of the Wick Type*. Preliminary report.

In this talk, we will present the properties of the Wick product and formulate the laws of Wick calculus in the context of an abstract Wiener space. Properties of Wick product will be applied to investigate infinite dimensional stochastic differential equations of the Wick type. Some examples of these types of equation will be discussed. (Received September 14, 2011)