



MATHEMATICS COLLOQUIUM

Complex Form of Classical and Quantum Electrodynamics

Professor Sergei Suslov

School of Mathematical and Statistical Sciences
Arizona State University

Abstract: We consider a complex covariant form of the macroscopic Maxwell equations, in a moving medium or at rest, following the original ideas of Minkowski. A compact, Lorentz invariant, derivation of the energy-momentum tensor and the corresponding differential balance equations are given. Conservation laws and quantization of the electromagnetic field will be discussed in this covariant approach elsewhere.

Date: **Thursday, November 17, 2016**

Time: 12:15pm-1:15pm

Place: MAGC 1.302

Refreshments will be served at 12:00pm

For further information, or for special accommodations, please contact Dr. Zhijun Qiao via email at zhijun.qiao@utrgv.edu or at 956-665-3406.