1:00 PM, WEDNESDAY, NOVEMBER 6, 2019, BOYD 301

Speaker: Dr. Eric Stachura, Department of Mathematics, Kennesaw State University, Kennesaw, GA

Title: Quantitative estimates for solutions of the Maxwell system in Lipschitz Domains

Abstract: We discuss quantitative estimates for the anisotropic Maxwell system in Lipschitz domains, with a focus on how the estimates precisely depend on the Lipschitz character of the domain. We pay special attention to trace operators and extension operators over certain Sobolev spaces. Finally, we provide a weak formulation of an interior scattering problem in terms of the exterior Calderón operator, and provide explicit bounds for the solution of the interior problem in terms of the incident fields and the Lipschitz character of the domain. This is joint work with Niklas Wellander.

All are welcome.