SIAM/APPLIED AND NUMERICAL ANALYSIS SEMINAR

Date: February 3, 2021

Speaker: Yuwen Li

Title: A posteriori error estimation and preconditioners in the Hilbert space

Abstract: In this talk, I will explain a posteriori error estimates for adaptive mesh refinement using preconditioning theory for accelerating Krylov subspace methods. From this viewpoint, I will derive old and new error estimators for several discrete H(grad), H(curl), H(div)-type problems. These results are based on my recent works joint with Ludmil Zikatanov.