

Lucrezia Cossetti: "A limiting absorption principle for time-harmonic isotropic Maxwell and Dirac equation"

Thursday, January 19, 2023 10:30 AM (55 minutes)

In this talk we investigate the $L^p - L^q$ mapping properties of the resolvent associated with the time-harmonic isotropic Maxwell and perturbed Dirac operator. As spectral parameters close to the spectrum are also covered by our analysis, we establish a $L^p - L^q$ type limiting absorption principle for these operators. Our analysis relies on new results for Helmholtz systems with zero order non-Hermitian perturbations. The talk is based on a joint work with R. Mandel and on an ongoing project with R. Mandel and R. Schippa.