

INdAM Workshop
Inverse Problems and Applications

June 3–9, 2002 - Cortona, Italy
Thursday June 6, 2002 - 16:55–17:15

ELISA FRANCINI

Istituto di Analisi Globale ed Applicazioni, CNR, Florence, Italy

***Asymptotic formulas for perturbations in the
electromagnetic fields due to the presence of thin
inhomogeneities***

Joint work with E. Beretta and M. Vogelius

We consider solutions to the time-harmonic Maxwell's Equations of a TE nature. For such solutions we provide a rigorous derivation of the first order boundary perturbation caused by the presence of thin inhomogeneities.