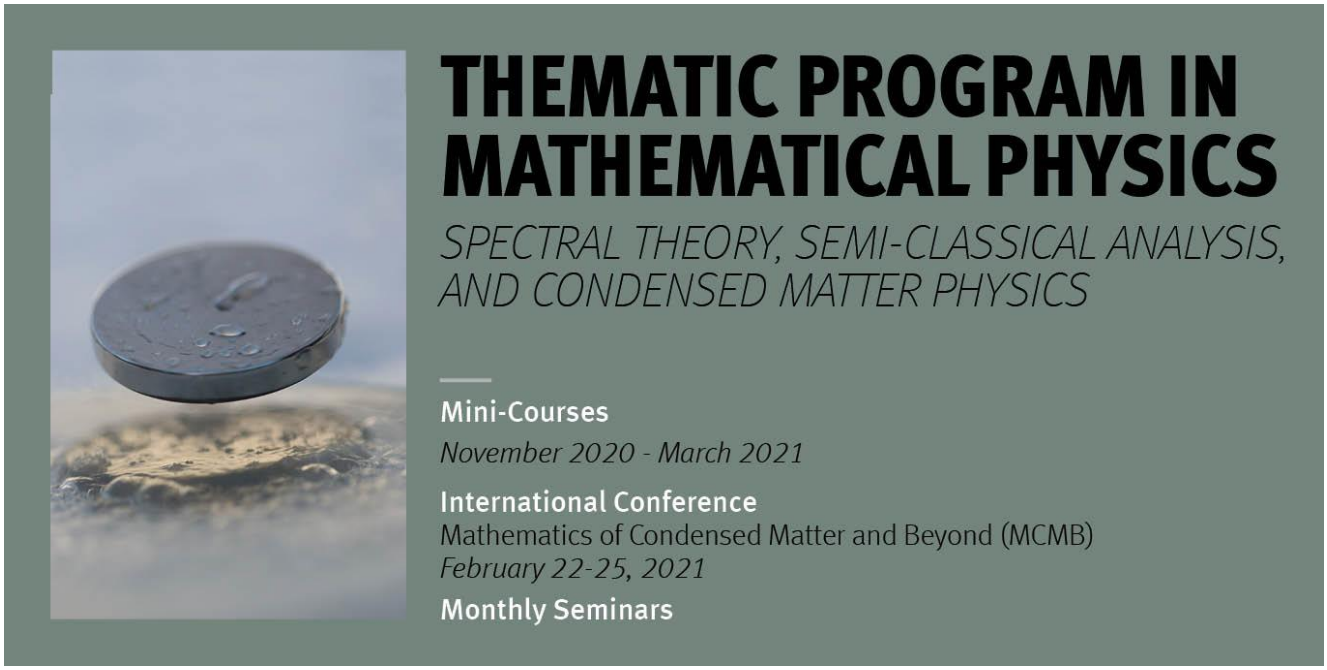

Seminar by Dr. Sara Maad Sasane (Lund University, Sweden)

Title: **Perturbations of embedded eigenvalues for a magnetic Schrödinger operator on a cylinder**

Date and Time: **December 10 at 3:00pm**

Registration Link: https://aub.webex.com/aub/onstage/g.php?PRID=26fd56268321e70b412724cb5b8ed323

Abstract:
Perturbation problems for operators with embedded eigenvalues are generally challenging since the embedded eigenvalues cannot be separated from the rest of the spectrum. In this talk, I will describe a perturbation problem for embedded eigenvalues for a magnetic Schrödinger operator, when the underlying domain is a cylinder. The magnetic potential has an algebraic decay rate as the unbounded variable of the cylinder tends to infinity in both directions. We show that the set of nearby potentials, for which a simple embedded eigenvalue persists, forms a smooth manifold of finite codimension. This is joint work with Ari Laptev.