Prof. Enno LENZMANN (University of Basel - CH)

will present a seminar entitled:

« Solitons for Calogero-Moser NLS and the prescribed Q-curvature problem »

Abstract:

In this talk, we exploit a new link between solitons for Calogero-Moser type NLS and the prescribed Q-curvature problem in one space dimension. The later problem can be seen as the canonical one-dimensional analogue of Liouville’s equation for prescribing Gaussian curvature of a surface. Inspired by features of complete integrability for Calogero-Moser NLS, we develop a general method to prove uniqueness results for the prescribed Q-curvature problem in one space dimension. This talk is based on joint work with Maria Ahrend (Basel).