EPFL

B. Buffoni – M. Colombo – J. Krieger – Mathematics Section

SEMINAR OF ANALYSIS

FRIDAY 12 November 2021 - Room: MA B1 11 at 2.15 pm

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 curvarture 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).

Lausanne, November 1, 2021
JK/rb