

HARVARD UNIVERSITY  
17 Oxford Street  
Cambridge, MA 02138



**Tuesday, April 13, 2021, at 10:00 (Boston)  
15:00 (UK/Eire) 16:00 (C.Europe) 22:00 (China)  
Mathematical Picture Language Seminar**

**Zoom at:** <https://harvard.zoom.us/j/779283357?pwd=MitXVm1pYUIJVzZqT3lwV2pCT1ZUQT09>

*Aspects of M Theory*

*Jens Hoppe*, Technische Universitat Braunschweig

Abstract. After giving a brief introduction to Membrane Theory and its matrix regularization, commenting on an inherent dynamical symmetry for all M-branes (the related “reconstruction-algebra” for  $M=1$ , strings, being the Virasoro algebra), I will explain some very recent work, including the observation that super-symmetrizable systems canonically (i.e. more or less automatically) have a Lax-pair formulation, with calculable r-matrix, - the appearance of infinite-dimensional CKL-algebras naturally entering the double bracket equations of Quantum Minimal Surfaces (IKKT model) and the (“BFFS”) membrane matrix model.

