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SEIT 1386

# STRUCTURES JOUR FIXE

**NICOLÒ DEFENU**

ITP, Universität Heidelberg

**“Universality on Network  
Structures from Quantum  
Dynamics to Big Data“**

EP 2.3 by T. Enss, M. Weidemüller, N. Defenu

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Room 106, Philosophenweg 12  
Contact: [office@structures.uni-heidelberg.de](mailto:office@structures.uni-heidelberg.de)



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## ABSTRACT

This project aims to investigate the equilibrium and dynamical universal behaviour of statistical physics  $O(N)$  models on random graphs and complex networks. This can be tested using recent experiments with Rydberg atoms in the blockade regime, which realise XXZ spin models on inhomogeneous random graphs.

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