



# The QGM Master Class Series

**Edited by Jørgen Ellegaard Andersen, Henning Haahr Andersen,  
Nigel Hitchin, Maxim Kontsevich, Robert Penner and Nicolai Reshetikhin**

The Centre for Quantum Geometry of Moduli Spaces (QGM) in Aarhus, Denmark, focuses on collaborative cutting-edge research and training in the quantum geometry of moduli spaces. This discipline lies at the interface between mathematics and theoretical physics combining ideas and techniques developed over the last decades for resolving the big challenge to provide solid mathematical foundations for a large class of quantum field theories.

As part of its mission, QGM organizes a series of master classes each year continuing the tradition initiated by the former Center for the Topology and Quantization of Moduli Spaces. In these events, prominent scientists lecture on their research speciality starting from first principles. The courses are typically centered around various aspects of quantization and moduli spaces as well as other related subjects such as topological quantum field theory and quantum geometry and topology in more general contexts.

This series contains lecture notes, textbooks and monographs arising from the master classes held at QGM. The guiding theme can be characterized as the study of geometrical aspects and mathematical foundations of quantum field theory and string theory.

Previously published in this series:  
Robert C. Penner, *Decorated Teichmüller Theory*

Volodymyr Mazorchuk

# Lectures on Algebraic Categorification



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Author:

Volodymyr Mazorchuk  
Department of Mathematics  
Uppsala University  
P.O. Box 480  
SE-75106 Uppsala  
Sweden  
Email: mazor@math.uu.se

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Contact address:

European Mathematical Society Publishing House  
Seminar for Applied Mathematics  
ETH-Zentrum SEW A27  
CH-8092 Zürich  
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Phone: +41 (0)44 632 34 36  
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