

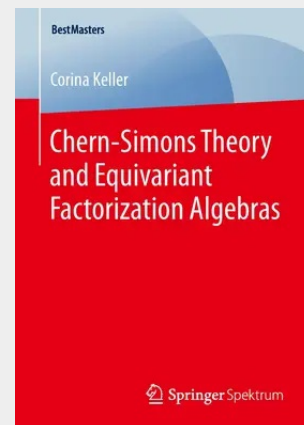
Chern-Simons Theory and Equivariant Factorization Algebras

Corina Keller studies non-perturbative facets of abelian Chern-Simons theories. This is a refinement of the entirely perturbative approach to classical Chern-Simons theory via homotopy factorization algebras of observables that arise from the associated formal moduli problem describing deformations of flat principal bundles with connections over the spacetime manifold. The author shows that for theories with abelian group structure, this factorization algebra of classical observables comes naturally equipped with an action of the gauge group, which allows to encode non-perturbative effects in the classical observables.

About the Author:

Corina Keller currently is a doctoral student in the research group of Prof. Dr. Damien Calaque at the Université Montpellier, France. She is mostly interested in the mathematical study of field theories. Her master's thesis was supervised by PD Dr. Alessandro Valentino and Prof. Dr. Alberto Cattaneo at Zurich University, Switzerland.

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64,19 €

59,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783658253370

Medium: Buch

ISBN: 978-3-658-25337-0

Verlag: Springer

Erscheinungstermin: 05.02.2019

Sprache(n): Englisch

Auflage: 1. Auflage 2019

Serie: BestMasters

Produktform: Kartoniert

Gewicht: 221 g

Seiten: 154

Format (B x H): 148 x 210 mm

