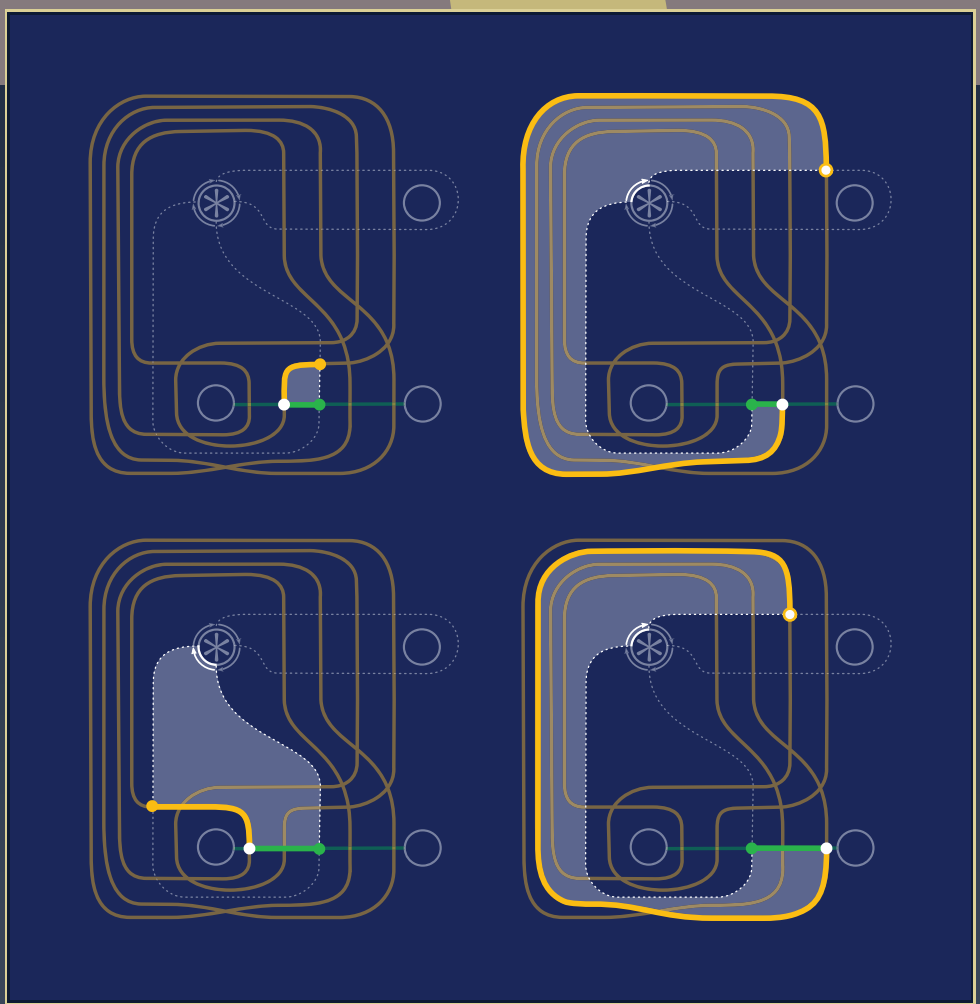
THE OPEN BOOK SERIES 5

Gauge Theory and Low-Dimensional Topology: Progress and Interaction

Preface



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Gauge theory and low-dimensional topology: progress and interaction
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Preface

This volume is a proceedings of the 2020 Banff International Research Station (BIRS) workshop "Interactions of gauge theory with contact and symplectic topology in dimensions 3 and 4". This was the sixth iteration of a recurring workshop held in Banff. Regrettably, the workshop was not held onsite but was instead an online gathering over Zoom, as a result of the Covid-19 pandemic. However, one benefit of the online format was that the participant list could be expanded beyond the usual strict limit of 42 individuals. It seemed to be also fitting, given the altered circumstances and larger than usual list of participants, to take the opportunity to put together a conference proceedings.

The result is this volume, which features papers showcasing research from participants at the sixth Interactions workshop (or earlier ones). As the title suggests, the emphasis is on research in gauge theory, contact and symplectic topology, and low-dimensional topology. The volume contains sixteen refereed papers, and it is representative of the many excellent talks and fascinating results presented at the Interactions workshops over the years since its inception in 2007.

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The cover image is based on an illustration from the article "Khovanov homology and strong inversions", by Artem Kotelskiy, Liam Watson and Claudius Zibrowius (see p. 232).

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