Title: Computing Integral Bases
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Abstract:
While the existence and concept of an integral basis is easy enough to understand, computing an integral basis for specific number fields is often not so easy. For this reason, as well as the desire to restrict this talk to an hour, we will focus mostly on examples and methods of computation for integral bases, while at the same time stating the necessary theory behind our methods. We assume only basic notions from field theory, such as the notions of field extensions, number fields, and algebraic integers.