A WAMS school on Lattices, Diophantine Approximation and Heights Urgench State University, Urgench, Uzbekistan July 12-17, 2021



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Diophantine approximation originated as the study of how well a number could be approximated by rational numbers. From this many new problems arose. A few examples are: simultaneous approximation of several rational numbers, approximation of algebraic integers, developing a metric theory of Diophantine approximation, and approximation on powers of the multiplicative group. Classical Diophantine approximation and its many generalizations require familiarity with concepts from algebraic number theory, lattices, geometry of numbers, and heights. This school's aim is to provide an introduction to Diophantine approximation, and the necessary background to study these problems.

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