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Geometric measure theoretical approach to the quantized blow-up mechanism in elliptic equations

Special Lectures: Quantitative Isoperimetric Type Inequalities and Applications

Dec. 22 (Mon) 1100-1200 J617

Dec. 24 (Wed) 1000-1100 I307

Dec. 25 (Thu) 1000-1100 J617

## Abstract

The simplicity in the statement of the isoperimetric inequality, together with the subtle difficulties that its rigorous proof hid, had been a source of increasing interest for mathematicians. In the past decades several quantitative versions and many related applications have been presented, often with more than one proof. The aim of these lectures is to give an introduction to the classical isoperimetric inequality and to various stability results proved in recent years for this inequality and other related geometric and analytic inequalities.