GAUSS
IN LEIPZIG

Discrete or continuous?

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38. öffentliche Gauß-Vorlesung
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PROGRAMM

Eröffnung durch die Präsidentin der DMV
Prof. Dr. Ilka Agricola

Grußwort der Rektorin der Universität Leipzig
Prof. Dr. Eva Inés Obergfell

Felix Kleins „Gauß-Programm“
Dr. Renate Tobies, Friedrich-Schiller-Universität Jena

Gauß-Vorlesung
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Empfang

Weitere Informationen unter
www.mathcs.uni-leipzig.de/math/gauss-vorlesung

László Lovász is a member of the Hungarian Academy of Sciences, Leopoldina, and several other Academies. His awards include the Wolf Prize, the Kyoto Prize and the Abel Prize. His field of research is discrete mathematics, its applications to the theory of computing, and its interactions with classical mathematics.

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From Zeno's paradoxes to quantum physics, the question of the continuous nature of our world has been prominent and remains unanswered. From a mathematical point of view, discrete structures or models behave quite differently from continuous ones. The great success story of mathematics from the 18th century has been the development of analysis. Discrete mathematics had a later start, with a large boost from computers. However, these worlds are not as far apart as they seem. Computers force us to approximate continuous structures by finite ones; but perhaps more surprisingly, very large finite structures can be very well approximated by continuous structures, often getting rid of inconvenient details. These approaches cross-fertilize each other.

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