Technion – Israel Institute of Technology

The Faculty of Mathematics

invites you to a

Special Colloquium by

Professor Alessio Figalli

ETH Zurich

2018 Fields Medalist

Monday, June 3\textsuperscript{rd}, 2019, at 15:30

Auditorium 233, Amado Building, Technion

\textbf{Title of talk: Stable solutions to semilinear elliptic equations}

\textbf{Abstract:} Stable solutions to semilinear elliptic PDEs appear in several problems. It is known since the 1970's that, in dimension $n > 9$, there exist singular stable solutions. In this talk I will describe a recent work with Cabré, Ros-Oton, and Serra, where we prove that stable solutions in dimension $n \leq 9$ are smooth. This answers also a famous open problem posed by Brezis, concerning the regularity of extremal solutions to the Gelfand problem.

Light refreshments will be given before the talk in the faculty lounge on the 8th floor

For administrative information please contact:
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