

Citation for the Anna and Lajos Erdős prize in Mathematics for 2016

The committee for the 2016 Erdős prize in Mathematics is proud to award the prize to Emmanuel Milman, from the Technion.

Emmanuel Milman works in the general area of asymptotic analysis. One of his main contributions is the study of the relation between isoperimetric inequalities, spectral gaps and concentration of measure on Riemannian manifolds.

There is a long history of deducing measure concentration from isoperimetric inequalities. He has found a way to go in the reverse direction in the setting of non-negative curvature, with dimension-free constants. This was a surprising and original development that Milman has pursued with vigor and which has attracted much attention, and which the referees hailed as among the best works in the field in the past several years.

Emmanuel Milman has published in some of the leading journals in mathematics, and his many works have been widely cited. He was awarded the prestigious and highly competitive Starting Grant by the European Research Council. We are happy to award the 2016 Erdős Prize in Mathematics to Emmanuel Milman.

Zeev Rudnick

Chair, Erdős prize committee