

The Committee unanimously propose Stefano Bianchini as the recipient of the first Magenes Prize, with the following motivation:

Stefano Bianchini has given fundamental, deep and original contributions to many areas of mathematical analysis and PDEs, providing solutions to challenging problems and opening new important research directions, with a combination of pioneering techniques and new ingenious and elegant arguments.

His outstanding achievements include long standing problems in the theory of systems of nonlinear conservation laws, their approximation by vanishing viscosity, relaxation and numerical semidiscrete schemes, the well posedness of general boundary value problems.

He has thoroughly investigated the structure of transference plans in Optimal Transport problems, providing a full characterization of uniqueness, extremality and optimality, implementing in a completely rigorous way the original strategy of N.I. Sudakov for the Monge problem and pushing the theory up to general metric measure spaces.

Among his recent contributions, we also mention the the full solution of the problem of transport equation for divergence free vector field in two space dimensions and the new and fine SBV regularity results for Hamilton-Jacobi equations and nonlinear conservation laws.