SEMINARIO DI MATEMATICA

**Mercoledì 28 ottobre 2020**

ore 17:00

Scuola Normale Superiore

Pisa

Aula Mancini

**Mattia Fogagnolo**

## *(Scuola Normale Superiore)*

Terrà un seminario dal titolo:

**“Strictly outward minimizing hulls, p-capacities and isoperimetric inequalities”**

***Abstract:***

We investigate the notion of strictly outward minimizing hull and prove that under natural geometric assumptions on the ambient manifold the it gives a maximal volume solution to the least area problem with obstacle. Moreover, we recover the value of its area as limit of p-capacities.

Finally, we apply some of these results in order to obtain the sharp isoperimetric inequality on manifolds with nonnegative Ricci curvature and Euclidean volume growth up to dimension 7, up to now known only in dimension 3.

**!! IMPORTANT !!**

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People external to SNS, or people willing to attend the event remotely, should write to [andrea.malchiodi@sns.it](mailto:andrea.malchiodi@sns.it) and ask to join the "MS Teams" group of the seminars. **You do not need to re-write if you have already been inserted in the list.**