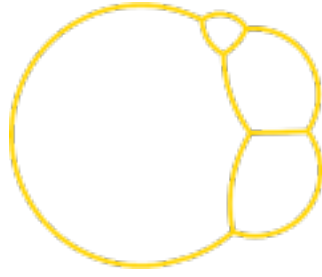Contribution ID: **108**   Type: **not specified**

Isoperimetric inequalities and potential theory

Friday, 24 June 2022 09:30 (50 minutes)

We describe through some selected examples an approach based on potential theory toward the proof of relevant geometric inequalities, holding both in classical and curved frameworks. Time permitting, we also discuss some applications of interest in general relativity, including the positive mass theorem and the Riemannian Penrose inequality, which - according to G. Gibbons - can be understood as an isoperimetric inequality for black holes.

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