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Leobardo Rosales* (lrosales@kias.re.kr), KIAS, 85 Hoegiro (Cheongnyangni-dong 207-43), Dongdaemun-gu, Seoul, 130-722, South Korea. *The Plateau Problem for the c -Isoperimetric Mass of Currents.*

We introduce a new notion of mass for currents, generalized orientable immersions of Euclidean space, similar to the flat norm although with a scaling property. Through this mass, which we call the c -isoperimetric mass, we ask the analogous Plateau problem: this is classically, find a surface of least area spanning a given boundary curve in space. Questions of existence and regularity are studied and proposed. (Received September 06, 2012)