Title: A stability property of the octahedron and the icosahedron
Author(s): Károly Böröczky, Károly Böröczky and Jr.

According to a recent result, for $r=\sqrt{3}$ or $r=\sqrt{15-6 \sqrt{5}}$, the convex body of minimal volume or of minimal surface area in $\mathbb{E}^{3}$ that contains a unit ball, and the extreme points are of distance at least $r$ from the centre of the unit ball is the regular octahedron and icosahedron, respectively. In this paper we prove corresponding stability results.

## Address:

Károly Böröczky
Department of Geometry
Roland Eötvös University
Pázmány Péter sétány $1 / C$
H-1117, Budapest
Hungary
E-mail: boroczky@cs.elte.hu

## Address:

Károly Böröczky, Jr.
Alfréd Rényi Institute of Mathematics
P.O. Box 127

H-1364, Budapest
Hungary
and
Department of Geometry
Roland Eötvös University
Pázmány Péter sétány $1 / \mathrm{C}$
H-1117, Budapest
Hungary

