

Also available at <http://amc-journal.eu>
ISSN 1855-3966 (printed edn.), ISSN 1855-3974 (electronic edn.)
Ars Mathematica Contemporanea Volume 5, Issue 2, Year 2012, Pages 295–306

Side lengths of pseudoconvex fullerene patches

Christina M. Graves, Jennifer McLoud-Mann

Abstract

In this paper we consider fullerene patches with nice boundaries containing between one and five pentagonal faces. We find necessary conditions for the side lengths of such patches, and then prove these conditions are sufficient by constructing such patches.

Keywords: Fullerenes, fullerene patches, boundary codes, pseudoconvex patches.

Math. Subj. Class.: [05C90 \(05C10 05C75 92E10\)](#)

Dolžine robov psevdokonveksnih fullerenskih krpičij

Povzetek

V tem članku obravnavamo fullerenska krpičja z lepimi mejami, ki vsebujejo od enega do pet petkotnih lic. Poiščemo potrebne pogoje za dolžine robov takih krpičij in s konstrukcijo le-teh dokažemo, da so ti pogoji tudi zadostni.

Ključne besede: Fullereni, fullerenska krpičja, robne kode, psevdokonveksna krpičja.