



## *colloquia@iasi*



*"La mente è come un paracadute.  
Funziona solo se si apre"  
A. Einstein*

### **HAJOS' CONJECTURE IS ALMOST ALWAYS TRUE**

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#### Abstract

The 4 Colour Theorem is probably the most famous result about colouring graphs. It states that the countries of every planar map can be 4-coloured so that no two countries which share a boundary get the same colour. We discuss strengthenings of this conjecture proposed by Hadwiger and Hajos. Hadwiger's conjecture remains open.

In 1979 Erdos and Fajtlewicz proved that Hajos' conjecture is almost always false. We show that the conjecture is almost always true.

This is joint work with P. Keevash, C. McDiarmid, and B. Mohar.

