

# Seminar

**Speaker:** [Rémy Belmonte](#) (PhD student, University of Bergen)

**Title:** Induced immersions

**Date:** Friday, 30 Nov 2012

**Time:** 18:30-19:30

**Location:** [Univeristy of Athens, Department of Mathematics, University of Athens, room Γ33](#)

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## Abstract

A graph  $G$  contains a multigraph  $H$  as an induced immersion if  $H$  can be obtained from  $G$  by a sequence of vertex deletions and lifts. We present a polynomial-time algorithm that decides for any fixed multigraph  $H$  whether an input graph  $G$  contains  $H$  as an induced immersion. We also show that for every multigraph  $H$  with maximum degree at most 2, there exists a constant  $c_H$  such that every graph with treewidth more than  $c_H$  contains  $H$  as an induced immersion.

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