



**De:** [crm@crm.umontreal.ca](mailto:crm@crm.umontreal.ca)  
**Objet:** \*\*\*AUJOURD'HUI\*\*\* : CSMQ-Montréal / William Minicozzi  
**Date:** 2 avril 2015 09:48  
**À:** [activites@CRM.UMontreal.CA](mailto:activites@CRM.UMontreal.CA)

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**Le café sera servi à 15h30 / BURN 1024 / Coffee will be served at 3:30 pm / BURN 1024.**  
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COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC - Montréal  
<http://www.crm.umontreal.ca/Colloques/colloqueSMQ-Montreal.html>  
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**DATE :**  
Le jeudi 2 avril 2015 / Thursday, April 2, 2015

**HEURE / TIME :**  
16 h / 4:00 p.m.

**CONFERENCIER(S) / SPEAKER(S) :**  
William Minicozzi (MIT)

**TITRE / TITLE :**  
Uniqueness of blowups and Lojasiewicz inequalities

**LIEU / PLACE :**  
McGill University, Burnside Hall, 805 rue Sherbrooke O., Montréal, salle 920

**RESUME / ABSTRACT :**  
The mean curvature flow (MCF) of any closed hypersurface becomes singular in finite time. Once one knows that singularities occur, one naturally wonders what the singularities are like. For minimal varieties the first answer, by Federer-Fleming in 1959, is that they weakly resemble cones. For MCF, by the combined work of Huisken, Ilmanen, and White, singularities weakly resemble shrinkers. Unfortunately, the simple proofs leave open the possibility that a minimal variety or a MCF looked at under a microscope will resemble one blowup, but under higher magnification, it might (as far as anyone knows) resemble a completely different blowup. Whether this ever happens is perhaps the most fundamental question about singularities. We will discuss the proof of this long standing open question for MCF at all generic singularities and for mean convex MCF at all singularities. This is joint work with Toby Colding.