



**De:** CRM CRM@CRM.UMontreal.CA  
**Objet:** \*\* AUJOURD'HUI \*\* COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC (21/04/2017, Aaron Naber)  
**Date:** 21 avril 2017 12:53  
**À:** activites@CRM.UMontreal.CA

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COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC  
<http://www.crm.umontreal.ca/Colloques/index.html>

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DATE :  
Le vendredi 21 avril 2017 / Friday, April 21, 2017

HEURE / TIME :  
16 h - 17 h / 4:00 p.m. - 5:00 p.m.

CONFERENCIER(S) / SPEAKER(S) :  
Aaron Naber (Northwestern University)

TITRE / TITLE :  
Introduction to the Energy Identity for Yang-Mills

LIEU / PLACE :  
UQAM, Pavillon Président-Kennedy, 201, ave du Président-Kennedy, salle PK-5115

RESUME / ABSTRACT :  
In this talk we give an introduction to the analysis of the Yang-Mills equation in higher dimensions. In particular, when studying sequences of solutions we will study the manner in which blow up can occur, and how this blow up may be understood through the classical notions of the defect measure and bubbles. The energy identity is an explicit conjectural relationship, known to be true in dimension four, relating the energy density of the defect measure at a point to the bubbles which occur at that point, and we will give a brief overview of the recent proof of this result for general stationary Yang Mills in higher dimensions.

The work is joint with Daniele Valtorta.

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Responsables :  
Olivier Collin (UQÀM)  
Henri Darmon (Université McGill)  
Dimitris Koukoulopoulos (Université de Montréal)  
Iosif Polterovich (Université de Montréal)  
David Stephens (Université McGill)  
Hugh Thomas (UQÀM)  
Yi Yang (Université McGill)  
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