De: **CRM** crm@crm.umontreal.ca
Objet: COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC (29/01/2016, Jérôme Vétois)
Date: 25 janvier 2016 10:17
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COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC - Montréal
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DATE :
Le vendredi 29 janvier 2016 / Friday, January 29, 2016

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

CONFERENCIER(S) / SPEAKER(S) :
Jérôme Vétois (McGill University)

TITRE / TITLE :
Stability and instability for nonlinear elliptic PDE with slight variations to the data

LIEU / PLACE :
CRM, UdeM, Pav. André-Aisenstadt, 2920, ch. de la Tour, salle 6214

RESUME / ABSTRACT :
We will consider the question of stability of solutions to nonlinear elliptic PDE when slightly varying the data. We will take as a model the Standing Wave Equation for critical nonlinear Schrödinger and Klein-Gordon Equations on a closed manifold, and we will look at variations to the potential functions in these equations. A number of results have been obtained on this question in the last two decades, and we now have an accurate picture of the stability and instability of solutions to these equations. I will give an overview of these results and explain why certain types of unstable solutions can exist for some potential functions or in some geometries, and not others.

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