



De: **Louis Pelletier** pelletl@CRM.UMontreal.CA
 Objet: Prix CRM-ACP 2014 - conférence du lauréat le 27 mars
 Date: 11 mars 2015 10:31
 À: suzette paradis paradis@CRM.UMontreal.CA

 CONFÉRENCE LAURÉAT 2014
 PRIX ACP-CRM DE PHYSIQUE THÉORIQUE ET MATHÉMATIQUE

CONFÉRENCIER(S) / SPEAKER(S) :
 Mark Van Raamsdonk (University of British Columbia)

TITRE / TITLE :
 Gravity and Entanglement

RESUME / ABSTRACT :
 The AdS/CFT correspondence from string theory provides a quantum theory of gravity in which spacetime and gravitational physics emerge from an ordinary non-gravitational system with many degrees of freedom. In this talk, I will explain how quantum entanglement between these degrees of freedom is crucial for the emergence of a classical spacetime, and describe progress in understanding how spacetime dynamics (gravitation) arises from the physics of quantum entanglement. The talk will include an elementary review of the ideas of quantum entanglement and the AdS/CFT correspondence, and will be aimed at a broad audience of mathematicians, physicists and students.

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

DATE :
 Le vendredi 27 mars 2015 / Friday, March 27, 2015

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

 Le café sera servi à 15h30.
 Une réception suivra la conférence au Salon Maurice-l'Abbé
 Pavillon André-Aisenstadt (Salle 6245).

Coffee will be served at 3:30 pm.
 There will be a reception after the lecture in Salon Maurice-l'Abbé,
 Pavillon André-Aisenstadt (Room 6245).

 ==>> <http://www.crm.math.ca/VanRaamsdonk> <<====
