# SEMPARIS – Séminaires en région parisienne

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## Statistics, Analysis, Multidisciplinary Modeling

**Vendredi 9 Juin 2017, 11 :30**
SAMM, C20.13, Centre Pierre Mendès-France, Univ. Paris-1, 90 rue de Tolbiac, Paris
Domaines : cond-mat.stat-mech—math-ph—math.FA—math.MP

Titre : *Instability of solitary waves in the KdV-type equations*

Orateur : **Svetlana Roudenko ( Department of Mathematics, The George Washington University )**

Résumé : *We revisit the instability of solitons in the critical and supercritcal cases of the KdV equation, in particular the fundamental result of Martel-Merle about instability of solitary waves for the critical KdV equation. Then we investigate a similar phenomenon in the higher dimensional generalizations of the KdV equation, called the Zakharov-Kuznetsov equation. This is joint work with Luiz Farah and Justin Holmer.*