

## 第11回

- 講演者: **Micheline Musette** 氏 (ブリュッセル大学自然科学学部)
  - 題目: Hénon-Heiles type Hamiltonians and separation of variables
  - 日時: 平成 15年 11月 20日(木) 15:30 ~ 16:30
  - 場所: 数学科セミナー室 4号館 3階

The Hénon-Heiles Hamiltonian with a cubic potential and an additive non polynomial term is known to be Liouville integrable in 3 cases, respectively associated with the stationary flow of the fifth-KdV, Sawada-Kotera(SK) and Kaup-Kupershmidt partial differential equations. Here, we integrate in the 3 cases the equations of motion with genus 2 hyperelliptic functions. This extends previous results obtained for the SK and KK cases.

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