

第05回 Martin Guest

- 講演者: **Martin Guest**氏 (早稲田大学)
- 題目: The (enhanced) Coxeter Plane: an application of differential equations to Lie theory
- 日時: 2019年6月18日(火) 16:30 ~ 17:30
- 場所: 数学科セミナー室(4号館3階)

[seminar, 2019](#)

abstract

The Coxeter Plane is obtained from the root system (of a Lie algebra) by projecting the roots to a certain 2-dimensional plane. The resulting picture was discovered by Coxeter in his investigations of polytopes - but rarely appears in the Lie theory literature. We shall give another description of the Coxeter Plane, arising (in a rather unexpected way) from the theory of ordinary differential equations and integrable systems. This is joint work with Nan-Kuo Ho of National Tsing-Hua University, Taiwan.

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Last update: **2021/02/11 10:13**

