

魅力ある大学院教育 イニシアティブ  
「先端科学技術の芽を生み出す女性研究者育成」  
(博士前期課程・キャリア形成科目)

## 女性先端科学者セミナー

日時: 11月18日(火) 16:30–17:30

会場: 奈良女子大学理学部 G202 (G棟2階)

講師: Crystal Hoyt 氏 (イスラエル, Weizmann 研究所)

題目: Representation theory of Lie superalgebras  
(スーパー Lie 環の表現論)

概要: What are the possible solutions of the following equation?

$$XY + YX = 1$$

What are the solutions if we allow the variables  $X$  and  $Y$  to be matrices? It was through this question that I was first introduced to mathematical research and Lie superalgebras as an undergraduate, after having completed only a linear algebra course. The representation theory of Lie superalgebras is a relatively new area of mathematics, where there are still many open fundamental problems. In my Ph.D. dissertation I settled one of these: the classification of Kac-Moody superalgebras of finite growth, which had remained open for twenty years. In this talk, we will present basic definitions and examples. We will give a partial survey of the history of the field, discussing some important results.



- 講演後にレセプションを行う予定です。
- 「女性先端科学者セミナー」の受講登録をしていない大学院学生や学部学生、教員の方の聴講も歓迎致します！

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