

第30回

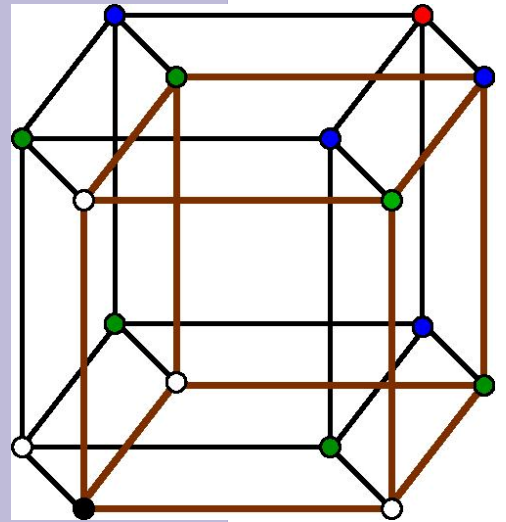
# Adam Doliwa 氏

(University of Warmia and Mazury (Poland))

## SOLVABILITY AND SYMMETRY

The ability to use abstract thinking in solving practical problems is the hallmark of human civilization. As a consequence, however, limitations of our language or world views may narrow down our practical possibilities. On the other hand, restrictions of our tools to specific means due to their expected efficiency or to the very nature of a given problem, may reveal mathematical beauty of geometric or algebraic structures which stand behind the possibility of solving the problem.

In my lecture I would like to present several instances of such an approach starting with the famous problems of ancient Greek mathematics. We will see the important role of the concept of symmetry as a practical tool of detecting "the problems we can solve", and how it was changing over the years and the increasing difficulty of the problems. My last example will be the famous equation introduced by professor Ryogo Hirota. In particular, I will show how it links together various areas of mathematics such as projective geometry, algebraic theory of continued fractions, and combinatorics.

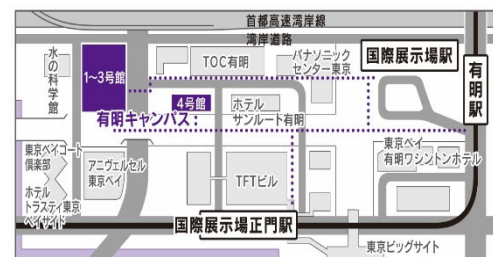


# 11月21日 (木) 16:30-18:00

武蔵野大学有明キャンパス, 4号館 4階 403室

事前登録不要・参加無料：どなたでも自由にご参加いただけます。

りんかい線「国際展示場駅」徒歩7分



コーディネーター：薩摩 順吉（武蔵野大学工学部数理工学科 教授）

問い合わせ先：武蔵野大学数理工学センター

[https://www.musashino-u.ac.jp/research/laboratory/mathematical\\_engineering/](https://www.musashino-u.ac.jp/research/laboratory/mathematical_engineering/)

世界の幸せをカタチにする。

Let's brighten up the world.



Musashino University

