

東北大学大学院情報科学研究科
純粋・応用数学研究センター

情報数理談話会のお知らせ

日 時： 2014年10月30日(木) 16:00 – 17:00

(会場にお茶を用意しております)

場 所： 東北大学大学院情報科学研究科棟 2階大講義室

講演者： Robert Craigen 氏 (University of Manitoba)

題 目： Structure and permutation symmetry of matrices

[概要] We say that two matrices are (permutation) equivalent if one can be obtained by permuting the rows and columns of the other. Suppose a square matrix is equivalent to its transpose. Must it necessarily also be equivalent to a symmetric matrix? More generally, what sort of matrix is equivalent to its own transpose?

The answers are elegant and perhaps a little startling; we will derive an essentially complete solution, examine some lovely matrix artifacts, and discuss a couple of contexts in which these questions arise naturally.

ホームページ： <http://www.math.is.tohoku.ac.jp/research/colloquium.html>