平成 26 年度数学専攻プロジェクトゼミナール (現代数学ゼミナール)

プロジェクトゼミナールのお知らせです．これは談話会も兼ねております．

日時：12 月 10 日 (水)　　16：30-17：30

場所：大学院自然科学研究科棟 3 階数理演習室（３０１号室）

講演者：Chuluundorj Bekh-Ochir（National University of Mongolia）

講演題目：On a conjecture of V.V. Shchigolev

要旨：V.V. Shchigolev has proven that over any infinite field k of characteristic $p > 2$, the T-space generated by $G = \{x_1^p, x_1^p x_2^p, \dots\}$ is finitely based, which answered a question raised by A.V. Grishin. Shchigolev went on to conjecture that every infinite subset of G generates a finitely based T-space. In this paper, we prove that Shchigolev's conjecture was correct by showing that for any field of characteristic $p > 2$, the T-space generated by any subset $G = \{x_1^p x_2^p \dots x_{i_1}^p, x_1^p x_2^p \dots x_{i_2}^p, \dots\}$, $i_1 < i_2 < \dots$, of G has a T-space generating set of size $i_2 - i_1 + 1$.

<div style="text-align: right">プロジェクトゼミナール担当　阿部健</div>