

CREST小谷チーム
「離散幾何学から提案する新物質創成・物性発現の解明」
中間報告会

Date : 2010年11月5日(金)~11月6日(土)

Place : 東北大学大学院情報科学研究科大講義室

PROGRAM

November 5 (Fri)

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|-------------|---|
| 13:00-13:10 | Opening Remark
Special Session on K4 lattice |
| 13:10-14:00 | Toshikazu Sunada (Meiji University)
Special Invited Talk
How was the diamond twin discovered? |
| 14:20-14:50 | Seiichi Takami (Tohoku University)
Experimental challenge to realize K4 lattices
— TEA — |
| 15:20-15:50 | Hiroto Kuroda (Tohoku University)
On the limit behavior of solutions to parabolic equations
on thin domains |
| 16:00-16:30 | Claudio Cacciapuoti (HIM, U.Bonn, JSPS fellow)
Fast solitons on star graphs |
| 16:40-17:10 | Makoto Tagami (Tohoku University)
On Euclidean designs and the potential energy |
| 17:30-19:30 | —PARTY— |

November 6 (Sat)

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| 10:00-10:50 | Uzy Smilansky (Weizman Institute, Team adviser)
Random d-regular graphs : Combinatorics, spectral
statistics and random waves |
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- 11:10-12:00 Shinji Kajimoto (Tohoku University)
Toward real-time observation of nano-structures in solutions: Dynamics of laser-induced phase separation in liquid mixtures and development of nanosecond structured illumination microscopy
— LUNCH —
- 14:00-14:50 Yohji Akama (Tohoku University)
VC dimension, measure concentration, and consistency of eigenvalues of sample covariance matrix
— TEA —
- 15:20-16:10 Yoshiyuki Kawazoe (Tohoku University)
Fundamental understanding of materials properties with virial theorem based on 3D geometry