

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