

Kansai Integrable System Seminar

Special Lecture Series on Elliptic Hypergeometric Functions

Jan/23 (Tue) -- 26 (Fri) and Mar/12 (Mon) -- 16 (Fri)
Graduate School of Informatics, Kyoto University

V.P. Spiridonov

(Laboratory of Theoretical Physics, JINR, Dubna, Russia and RIMS, Kyoto)

TITLE:

Introduction to the Theory of Elliptic Hypergeometric Functions

Contents:

1. Univariate plain and q-hypergeometric series.
2. Elliptic functions and theta functions; Riemann identity.
3. General univariate elliptic hypergeometric series.
4. Plain and q-hypergeometric gamma functions and integrals.
5. Elliptic gamma functions.
6. Elliptic analogue of the Meijer function.
7. Modular, well poised and very-well poised elliptic hypergeometric functions.
8. The Frenkel-Turaev summation formula.
9. The univariate elliptic beta integral.
10. Elliptic extension of the Gauss hypergeometric function, its symmetries and the elliptic hypergeometric equation.
11. Univariate elliptic biorthogonal functions.
12. The elliptic Selberg integral and other elliptic beta integrals on root systems.

Time: Lecture: 14:45--15:45

Break: 15:45--16:00

Lecture: 16:00--17:00

Room Number:

Jan/23,26: Lecture Room 406, Faculty of Engineering Integrated Research Building

Jan/24,25: Lecture Room 102, Faculty of Engineering Integrated Research Building

Mar/12: Lecture Room 102, Faculty of Engineering Integrated Research Building

Mar/13-16: Lecture Room 406, Faculty of Engineering Integrated Research Building

*These lectures are open to all interested researchers and graduate students.

Kansai Integrable System Seminar Web Page:

<http://www-is.amp.i.kyoto-u.ac.jp/kiss/index.html>

Access and Map:

[English] Access to Yoshida Campus:

http://www.kyoto-u.ac.jp/english/eaccess/e07_acce/getting_1.htm

Map: <http://www.kyoto-u.ac.jp/english/etop2/images/main2006.gif>

[Japanese] 京都大学 工学部総合校舎

http://www.kyoto-u.ac.jp/access/kmap/map6r_y.htm

Inquiries:

Satoshi TSUJIMOTO

(e-mail) tujimoto@i.kyoto-u.ac.jp

(Tel&Fax) 075-753-5498 & 075-753-5497

(Room) Room 312 or 408, Faculty of Engineering Integrated Research Bldg.,
Yoshida Campus, Kyoto Univ.