

# Hypersurface Geometry and Integrable Systems

Date : 24th August (Tue) 10:00 ~ 27th August (Fri) 16:00  
Place : Kawai Hall, Mathematical Institute, Tohoku University

## Program

	24(Tu)	25(Wed)	26(Th)	27(Fri)
10:00~10:50	Q.S.Chi	J.Q.Ge	S.Fujii	T. Sakai
11:00~11:50	O.Dearricott	M. Koiso	Xie+Yan	N.Koike
Lunch	-	-	(12:00-)	-
14:00~14:50	Q.S.Chi	T.Cecil	Y.Ohnita	O.Dearricott
15:00~15:50	Y.Nagatomo	T.Cecil	H.Ma	J.Dorfmeister
Tea	-	-	-	-
16:20~17:10	R.Miyaoka	W.Rossmann	J.Berndt	-
17:20~18:10	Z.Z.Tang	C.D.Ramos + M.D.Vazquez:	H.Tamaru	-
18:30~20:30	Party	-	-	-

### 24th August (Tue)

10:00~10:50 **Q.S. Chi** (WUSTL, USA)

Classification of isoparametric hypersurfaces with four principal curvatures in the sphere, I

11:00~11:50 **O. Dearricott** (UC Riverside, USA)

Isoparametric triple systems

14:00~15:50 **Q.S. Chi** (WUSTL, USA)

Classification of isoparametric hypersurfaces with four principal curvatures in the sphere, II

15:00~15:50 **Y. Nagatomo** (Kyushu)

Vector bundles, isoparametric functions and Radon transforms on symmetric spaces

16:20~17:10 **R. Miyaoka** (Tohoku)

Isoparametric hypersurfaces with  $(g, m) = (6, 2)$

17:20~18:10 **Z.Z. Tang** (Beijin Normal, China)

Isoparametric function and exotic spheres

18:30~20:30 **Party** (AOSIS)

### 25th August (Wed)

10:00~10:50 **J.Q. Ge** (Beijin Normal, China)

Anisotropic isoparametric hypersurfaces in the Euclidean space

11:00~11:50 **M. Koiso** (Kyushu)

Geometry of hypersurfaces with constant anisotropic mean curvature

14:00~14:50 **T. Cecil** (Holy Cross, USA)

Dupin Hypersurfaces in Lie Sphere Geometry

15:00~15:50 **T. Cecil** (Holy Cross, USA)

Classifications of Dupin Hypersurfaces

16:20~17:10 **W. Rossman** (Kobe)

An application of Lie sphere geometry to surface theory in discrete differential geometry

17:20~17:50 **J. Carlos Diaz-Ramos** (Santiago de Compostela)

Homogeneous hyperpolar foliations on symmetric spaces of noncompact type

17:50~18:20 **Miguel Dominguez-Vazquez** (Santiago de Compostela)

Real hypersurfaces with constant principal curvatures in complex projective and hyperbolic spaces

### 26th August (Th)

10:00~10:25 **S. Fujii** (Hiroshima, OCAMI)

Moment maps and isoparametric hypersurfaces in spheres - Hermitian case

11:00~11:30 **Y.Q. Xie** (Beijing Normal, China)

Gradient map of isoparametric polynomial and its application to Ginzburg-Landau system

11:30~12:00 **W.J. Yan** (Beijing Normal, China)

The minimal cone with degree 3.

14:00~14:50 **Y. Ohnita** (Osaka City)

On Lagrangian Submanifolds in complex hyperquadrics obtained from isoparametric hypersurfaces

15:00~15:50 **H. Ma** (Tsinghua, China)

On Hamiltonian stability of the Gauss image of the homogeneous isoparametric hypersurface of EIII type

16:20~17:10 **J. Berndt** (London King's College, UK)

Cohomogeneity one actions on symmetric spaces of noncompact type (I)

17:20~18:10 **H. Tamaru** (Hiroshima)

Cohomogeneity one actions on symmetric spaces of noncompact type (II)

### 27th August (Fri)

10:00~10:50 **T. Sakai** (TMU)

Cohomogeneity one special Lagrangian submanifolds in the cotangent bundle of the sphere

11:00~11:50 **N. Koike** (Science U. Tokyo)

On equifocal submanifolds and complex equifocal submanifolds

14:00~14:50 **O. Darricott** (UC Riverside, USA)

n-Sasakian manifolds

15:00~15:50 **J. Dorfmeister** (TU München, Germany)

Isoparametric triple systems