

Correspondences of various geometries

Organizers : Junichi Matsuzawa (Institut Kiyoshi Oka)
Tohru Morimoto (Institut Kiyoshi Oka)
Pawel Nurowski
(Center for Theoretical Physics Polish Academy of Sciences)
Kazuhiro Shibuya (Hiroshima University)

Dates : September 30 - October 2 , 2022

Venue : Room B1406, B Hall (Faculty Science) , Nara Women's University

URL : <http://home.hiroshima-u.ac.jp/shibuya/sympo/OkaMI2022.html>

Program

30 September 2022 (Friday)

14:00-14:15 : Opening Remarks

14:15-15:15 : Katja Sagerschnig(Center for Theoretical Physics PAS)

Parabolic quasi-contact cone structures with a symmetry

15:30-16:30 : Ryushi Goto(Osaka Univ.)

Generalized contact structures and generalized Sasakian structures

1 October 2022 (Saturday)

10:00-11:00 : Masahiro Morimoto (OCAMI, Osaka Metropolitan Univ.)

Geometry of orbits of path group actions induced by Hermann actions

11:15-12:15 : Kenro Furutani(OCAMI, Osaka Metropolitan Univ.)

Calabi-Yau structure and Bargmann type transformation on the Cayley projective plane

14:00-15:00 : Goo Ishikawa(Hokkaido Univ.)

Singular curves of $(4, 7)$ distributions and C_3

15:15-16:15 : Kazuhiro Shibuya(Hiroshima Univ.)

Rank 4 distributions and higher order partial differential equations

16:30-17:30 : Tohru Morimoto(Institut Kiyoshi Oka)

Extrinsic geometries and linear differential equations of type \mathfrak{sl}_3 and

a general principle to determine all the transitive extrinsic geometries

2 October 2022 (Sunday)

9:00-10:00 : Hiroyuki Kamada(Miyagi Univ. of Education)

Partial integrability of the twistor space for a quaternionic CR manifold

10:15-11:15 : Toshihisa Kubo(Ryukoku Univ.)

On the construction and classification of differential symmetry breaking operators

11:30-12:30 : Pawel Nurowski(Center for Theoretical Physics PAS)

Twistor geometry of rolling bodies

14:00-15:00 : Shin Nayatani(Nagoya Univ.)

First-eigenvalue maximization and embedding optimization

15:15-16:15 : Takeo Ohsawa(Nagoya Univ.)

Bundle-convexity and kernel asymptotics on a class of locally pseudoconvex domains