

# 研究集会「カンドルと対称空間」

2018年11月16日(金)～2018年11月17日(土)  
大阪市立大学(杉本キャンパス) 数学教室中講究室(F415)

## プログラム

### 11月16日(金)

14:00–14:40 河村建吾(大阪市立大学数学研究所)

Quandle (co)homology groups and embedded/immersed surface-knots

14:50–15:30 奥田隆幸(広島大学)

Delsarte's theory for subsets of finite homogeneous spaces

16:00–17:00 J. Scott Carter (University of South Alabama and OCAMI)

Diagrammatics of quandle and group 2-cocycles: part 1

(Joint work with Byeorhi Kim (Kyungpook National University))

### 11月17日(土)

10:00–10:40 Byeorhi Kim (Kyungpook National University)

Diagrammatics of quandle and group 2-cocycles: part 2

(Joint work with J. Scott Carter (University of South Alabama and OCAMI))

10:50–11:30 栗原大武(北九州工業高等専門学校)

Great antipodal sets on unitary groups in terms of design theory

13:00–13:40 田中真紀子(東京理科大学)

コンパクト対称空間の対蹠集合

13:50–14:30 田崎博之(筑波大学)

有向実 Grassmann 多様体の対蹠集合

15:00–15:40 久保亮(広島大学)

On finite dimensional cross keis

15:50–16:30 石川勝巳(京都大学数理解析研究所)

On the orbit decomposition of smooth quandles

16:40–17:20 大城佳奈子(上智大学)

Local biquandles and region colorings of link diagrams

組織委員:

鎌田聖一(大阪市立大学)

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# Quandles and Symmetric Spaces

November 16 – November 17, 2018

Room F415, Department of Mathematics, Osaka City University

## Program

### November 16 (Fri.)

14:00–14:40 Kengo Kawamura (Osaka City University Advanced Mathematical Institute)  
Quandle (co)homology groups and embedded/immersed surface-knots

14:50–15:30 Takayuki Okuda (Hiroshima University)  
Delsarte's theory for subsets of finite homogeneous spaces

16:00–17:00 J. Scott Carter (University of South Alabama and OCAMI)  
Diagrammatics of quandle and group 2-cocycles: part 1  
(Joint work with Byeorhi Kim (Kyungpook National University))

### November 17 (Sat.)

10:00–10:40 Byeorhi Kim (Kyungpook National University)  
Diagrammatics of quandle and group 2-cocycles: part 2  
(Joint work with J. Scott Carter (University of South Alabama and OCAMI))

10:50–11:30 Hirotake Kurihara (National Institute of Technology, Kitakyushu College)  
Great antipodal sets on unitary groups in terms of design theory

13:00–13:40 Makiko Sumi Tanaka (Tokyo University of Science)  
Antipodal sets of compact symmetric spaces

13:50–14:30 Hiroyuki Tasaki (University of Tsukuba)  
Antipodal sets of oriented real Grassmann manifolds

15:00–15:40 Akira Kubo (Hiroshima University)  
On finite dimensional cross keis

15:50–16:30 Katsumi Ishikawa (Research Institute for Mathematical Sciences, Kyoto University)  
On the orbit decomposition of smooth quandles

16:40–17:20 Kanako Oshiro (Sophia University)  
Local biquandles and region colorings of link diagrams

### Organizers:

Seiichi Kamada (Osaka City University)

Hiroshi Tamaru (Osaka City University)

Kengo Kawamura (Osaka City University Advanced Mathematical Institute)

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