

**THE CUT LOCUS  
PROGRAM**

September 3rd–6th, 2018

At Multimedia Hall, Tokai University, Sapporo campus

**3rd September**

2:00–2:30     *Registration*

**Afternoon Session**  
(Chair: Kei Kondo)

2:30–3:20     S. Izumiya (Hokkaido Univ.)  
*Singularities of the Cauchy horizon in Lorentzian space forms*

3:30–4:20     A. Tsuchida (Hokkaido Univ.)  
*A classification of bundle homomorphisms between distributions  
and its application*

18:00–20:00     *Banquet*

## 4th September

### Morning Session

(Chair: Jean-Baptiste Caillau)

- 10:00–10:50 D. Barilari (Paris Diderot Univ.)  
*Cut locus, heat kernel, and regularity of the distance in sub-Riemannian geometry*
- 11:00–11:50 J-B. Pomet (INRIA and Université Côte d'Azur)  
*Averaging varying sub-Riemannian geometry into Finsler geometry, and resulting properties*
- 11:50–13:20 Lunch Time

### Afternoon Session I

(Chair: Sorin Sabau)

- 13:20–14:10 S. Ohta (Osaka Univ.)  
*Rectifiability of self-contracted curves with applications*
- 14:20–15:10 N. Innami (Niigata Univ.)  
*The asymptotic behavior of geodesic circles in a geodesically convex surface*

### Afternoon Session II

(Chair: Minoru Tanaka)

- 15:30–16:20 S. Markvorsen (Technical Univ. of Denmark)  
*Frontals and cut loci from time-dependent differential Finsler-inclusions*
- 16:30–17:20 T. Miura (Univ. of Tokyo and Max Planck Institute for Math.)  
*A characterization of cut loci of non-smooth hypersurfaces*

(Chair: Sorin. Sabau)

- 17:40–18:30 M. Tanaka (Tokai Univ.)  
*The singular locus of an almost distance function*

## 5th September

*Excursion*

**6th September**

**Morning Session**  
(Chair: Minoru Tanaka)

- 10:00–10:50 C. H. Mai (Kyoto Univ.)  
*Rigidity for some geometric inequalities  
on weighted Riemannian manifolds*
- 11:00–11:50 S. Sabau (Tokai Univ.)  
*Finsler spheres of constant flag curvature*