# Algebraic system, Logic, Language and Related Areas in Computer Science RIMS, 2021

February 17-19 , 2021 The Kyoto University Research Institute for Mathematical Science Kyoto University

## **Invited Speakers**

#### **Collin Bleak**

### School of Mathematics and Statistics, University of St Andrews, UK "On maximal subgroups of R. Thompson's group V" February 19 (Friday) 15:40 – 16:30 (Japan time)

Abstract: The subgroup structure of the R. Thompson groups F, T, and V have come under serious scrutiny lately due to some groundbreaking results in C\*-algebras, arising initially from work of Haagerup and Olesen on the amenability of F. Their work opened a door, and peoples' interest immediately lead (by further transformative work of Kalantar and Kennedy, Adrienne Le Boudec, Nicolas Matte-Bon, and others) to a complete transformation of our understanding of C\*-simplicity. One key and surprising result here: Matte Bon and Le Boudec provide examples of finitely presented C\*-simple groups without free subgroups.

#### Christoher Briggs

¿Department of Mathematics, Embry-Riddle Aeronautical University, USA "A growth dichotomy for twisted polynomial algebras"

February 18 (Thursday) 09:00 - 09:50 (Japan time)

Abstract: In this talk, we consider the growth of a twisted polynomial algebra. We prove that the algebra has polynomially bounded growth if the twisting endomorphism has all eigenvalues of magnitude 0 or 1, and the algebra has uniform exponential growth otherwise.

## Kokichi Futatsugi

JAIST, Japan "Specification Verification in CafeOBJ" February 17 (Wednessday) 13:30 – 14:20

### Janet Page

University of Michigan,

USA

" The non-Gorenstein locus of certain rings arising from finite posets" February 17 (Wednessday) 09:00 – 09:50