

2019 Young Mathematician Forum

Tuesday, Dec. 3, 2019

9:30 **Jiping Zhang**: Welcome

9:35-10:35 **Huanchen Bao**: The $m=2$ amplituhedron

10:35-10:50: Break

10:50-11:50 **Zhen Huan**: Level Structures and Morava E-theory

11:50-14:00 Lunch

14:00-15:00 **Antoine Song**: Morse index, Betti numbers and singular set of bounded area minimal hypersurfaces

15:00-15:30 Tea break

15:30-16:30 **Binbin Xu**: Ambartzumian-Pleijel identity in hyperbolic geometry

Wednesday, Dec. 4, 2019

9:30-10:30: **Wei Qian**: On Brownian loop-soup clusters

10:30-10:50: Break

10:50-11:50 **Liyang Li**: Stationary solutions for stochastic Burgers equation and infinite-volume polymer measures

11:50-14:00 Lunch

14:00-15:00 **Xi Chen**: Microlocal analysis and inverse problems of wave equations

15:00-15:30 Tea break

15:30-17:00 **Informal discussion with undergrads**

Thursday, Dec. 5, 2019

9:30-10:30 **Zihui Zhao**: Boundary regularity of area-minimizing currents: a linear model with analytic interface

10:30-10:50: Break

10:50-11:50 **Yang Lan**: Dynamics of threshold solutions for energy-critical fourth order NLS

11:50-14:00 Lunch

14:00-15:00 **Yifei Zhu**: Algebraic topology and arithmetic

15:00-15:40 **Group photo** and Tea break

15:40-16:40 **Zhouli Xu**: The geography problem on 4-manifolds: $10/8 + 4$