ALGEBRAIZATION THEOREMS: FROM GAGA TO FOLIATIONS OVER NUMBER FIELDS

TATIHOU ISLAND, 4-8 JULY 2016

Monday.

  9:00 Welcome + Introduction

  9:45 Talk 1
      Algebraization in complex analytic geometry I. From Puiseux to Chow.
      Yohan Brunebarbe

10:45 Coffee break

11:15 Talk 2
      Algebraization in complex analytic geometry I. Géométrie Algébrique et
      Géométrie Analytique.
      Michele Ancona

12:15 Lunch break

14:15 Talk 3
      The formalism of slopes. Vector bundles on projective curves.
      Diego Izquierdo

15:15 Coffee break

15:45 Talk 4
      The Hodge Index Theorem on projective surfaces. Connectivity theorems.
      Frank Gounelas

16:45 Break (no coffee)

17:15 Talk 5
      An introduction to formal geometry.
      Nicola Mazzari

Tuesday.

  9:30 Talk 6
      The theorems of Andreotti and Hartshorne.
      Florent Martin

10:30 Coffee break

11:00 Talk 7
      The theorems of Grauert and Grothendieck (SGA2).
      Olivier Benoist

12:15 Lunch break

14:30 Talk 8
      Algebraic foliations.
      Arne Smeets

15:45 Coffee break

16:15 Talk 9
      Some geometric applications.
      Simon Pepin Lehalleur

Wednesday.

9:30 Talk 10
First steps in Arakelov geometry.
Ramla Abdellatif

10:30 Coffee break

11:00 Talk 11
Arakelov geometry on arithmetic surfaces.
Ariyan Javanpeykar

12:15 Lunch break
Free afternoon (there will be coffee at some point)

19:00 Additional talk
Theta series, infinite rank Euclidean lattices, and Diophantine algebraization
Jean-Benoît Bost

Thursday.

9:30 Talk 12
Schwarz Lemma.
Robert Kucharczyk

10:30 Coffee break

11:00 Talk 13
Arithmetic algebraization à la Chudnovsky I. Statements and proofs.
Peter Jossen

12:15 Lunch break

14:30 Talk 14
Arithmetic algebraization à la Chudnovsky II. Diophantine applications.
Ziyang Gao

15:45 Coffee break

16:15 Talk 15
Arithmetic algebraization à la Schneider-Lang I. Statements and proofs.
Lars Kühne

Friday.

9:00 Talk 16
Arithmetic algebraization à la Schneider-Lang II. Diophantine applications.
François Charles

10:15 Coffee break

10:30 Additional talk
Cycles in the de Rham cohomology of abelian varieties over number fields.
Yunqing Tang