Dobrushin Scholarship report (2017)

Anna Abasheva

December 18, 2017

1. Attended courses

- HSE courses:
  - Probability theory, V.I. Bogachev
  - Algebraic geometry, S.S. Galkin
  - Introduction to number theory, V.A. Vologodsky
  - Commutative algebra, C.I. Brav
- IUM courses:
  - Arithmetic geometry seminar, V.A. Vologodsky, S.O. Gorchinsky, D.V. Osipov, S.Yu. Rybakov
  - Complex analytic spaces and holomorphic vector bundles, A.V. Penskoy
  - Class field theory, M.Yu. Rozenblum
  - Index theorems seminar, G.I. Sharygin

2. Expository talks

- HSE, Algebraic geometry course
  - Valuative criterion of properness
  - Cech cohomology and Demazure's theorem
- IUM, Index theorems seminar
  - Exact sequence of algebraic K-theory

3. Teaching

- Teaching assistant in IUM
  - Mathematical analysis-1
  - Differential equations
  - Topology-1
  - Analysis on manifolds