
Fall 2004 and Spring 2005

UF Graduate Student TOPOLOGY SEMINAR

Fall Semester: Tuesdays 7th Period (1:55-2:45 PM)

305 Little Hall

Schedule of Talks for Fall Semester

August 24

Rustam Sadykov, *Bordism groups of differential relations*

August 31

Rustam Sadykov, *Bordism groups of differential relations II*

September 7

No seminar because of Hurricane Frances

September 14

Rustam Sadykov, *Bordism groups of differential relations III*

September 21

Slagjana Jakimovik, *On the classification of inverse limit spaces of tent maps*

September 28

Slagjana Jakimovik, *On the classification of inverse limit spaces of tent maps II*

October 5

Slagjana Jakimovik, *On the classification of inverse limit spaces of tent maps III*

October 12

Diego Rojas-Rebolledo, *Borel Determinacy and Porous Sets*

October 19

Justin Smith, *On the First Grigorchuk Group*

October 26

Justin Smith, *On the First Grigorchuk Group II*

November 2

Prabhu Venkataraman, *Hurwitz Formula relating the genera of two compact Riemann surfaces*

November 9

Yuli Rudyak, *Bordisms and cobordisms*

November 16

Yuri Turygin, *Homotopy Groups of Spheres following Kervaire and Milnor*

Abstract. In a series of a few talks we intend to go through the famous paper by Michael Kervaire and John Milnor "Groups of Homotopy Spheres I" devoted to the classification of exotic differential structures on spheres. This first time we will start with proving that the set of homotopy spheres form an abelian group with respect to the connected summation operation and that every homotopy sphere is a stably parallelizable manifold.

November 23

Hung Ngoc Nguyen, *Some investigation of Singer's complex*

November 30

Yuri Turygin, *Homotopy Groups of Spheres following Kervaire and Milnor II*

December 7

Navin Kadambi, *Milnor's Theorem on Curvature of Knots*

Schedule of Talks for Spring Semester

January 11

Rustam Sadykov, *Regular actions of transformation groups*

January 18

No seminar this week

January 25

Rustam Sadykov, *Regular actions of transformation groups* (continued)

February 1

Yuri Turygin, *Groups of homotopy spheres* (continued)

February 8

Sergey Melikhov, *On compactifications of configuration spaces*

February 15

Yuri Turygin, *Homotopy spheres (following Kervaire-Milnor)*

February 22

Yuri Turygin, *Homotopy spheres (following Kervaire-Milnor)* (continued)

March 1

Spring Break

March 8

Yuri Turygin, *Homotopy spheres (following Kervaire-Milnor)* (continued)

March 15

Justin Smith, *Asymptotic Dimension of Countable Abelian Groups*

March 22

Justin Smith, *Asymptotic Dimension of Countable Abelian Groups*

March 29

Yuri Turygin, *Groups of Homotopy Spheres*

April 5

Yuri Turygin, *Groups of Homotopy Spheres*

April 12

Yuri Turygin, *Groups of Homotopy Spheres*

April 19

Prabhu Venkataraman, *Algebraic Curves and the Riemann-Roch Theorem*