
Fall 2001 and Spring 2002 UF Graduate Student TOPOLOGY SEMINAR

Fall Semester: Tuesdays 8th Period (3:00-3:50 PM)
Spring Semester: Wednesday 9-10th Period (4:05-6:00 PM)

305 Little Hall

Schedule of Talks for Fall Semester

August 28

Sergey Melikhov, *On isotopy realization of mappings I*

September 4

Sergey Melikhov, *On isotopy realization of mappings II*

September 11

Seminar cancelled

September 18

Gregory Bell, *On asymptotic dimension of groups acting on trees*

Abstract. We will prove **Theorem.** Let π be the fundamental group of a graph of groups with finitely generated vertex groups G_v having $\text{asdim } G_v \leq n$ for all vertices v . Then $\text{asdim } \pi \leq n+1$.

This gives the best estimate for the asymptotic dimension of an HNN extension and the amalgamated product.

September 25

Gregory Bell, *On asymptotic dimension of groups acting on trees* (continued)

October 2

Sergey Melikhov, *Discrete & isotopic realization of maps of S^n to S^n in \mathbb{R}^{2n}* (continued)

October 9

Sergey Melikhov, *Discrete & isotopic realization of maps of S^n to S^n in \mathbb{R}^{2n}* (continued)

October 16

Rustam Sadukov, *Singularities of smooth mappings* (continued)

October 23

Rustam Sadukov, *Singularities of smooth mappings* (continued)

October 16

Rustam Sadukov, *Singularities of smooth mappings* (continued)

October 23

Rustam Sadukov, *Singularities of smooth mappings* (continued)

October 30

Rustam Sadukov, *Singularities of smooth mappings* (continued)

November 6

Rustam Sadukov, *Singularities of smooth mappings* (continued)

November 13

Rustam Sadukov, *On the Atiyah-Singer index theorem*

November 20

Sergey Melikhov, *On a Whitehead conjecture and Eilenberg-Ganea problem*

November 27

Sergey Melikhov, *On a Whitehead conjecture and Eilenberg-Ganea problem*
(continued)

December 4

Sergey Melikhov, *On a Whitehead conjecture and Eilenberg-Ganea problem*
(continued)

Schedule of Talks for Fall Semester

January 16

Yuli Rudyak, *An introduction to Thom spaces*

January 23

Sergey Melikhov, *γ_ω and links*

January 30

Sergey Melikhov, *γ_ω and links* (continued)

February 6

Greg Bell, *On property A*

February 13

Seminar cancelled due to colloquium by Halberstam

February 20

Rustam Sadykov, *On Seiberg-Witten invariant*

February 27

Rustam Sadykov, *Differential structures on 4-manifolds* (continued)

March 20

Greg Bell, *Complexes of groups*

March 27

Seminar Cancelled

April 3

Rustam Sadykov, *Differential structures on 4-dimensional manifolds*

April 10

Sergey Melikhov, *On the theorem of Bestvina-Brady*

April 17

Sergey Melikhov, *Sunny collapsing and s-cobordisms*

Abstract. Some speculations will be presented on finding a purely geometric proof of the s-cobordism theorem and applications to dim 4. As a basis for this research program, the idea of a (relatively) new proof of Zeeman's unknotting theorem will be outlined, which proves also some related results from 60s. Relations with higher algebraic K-theory and with the concept of k-quasi-isotopy will also be discussed.