Arbeitsgemeinschaft mit aktuellem Thema:

Higher Torsion Invariants in Differential Topology and Algebraic K-Theory

Mathematisches Forschungsinstitut Oberwolfach

2. April – 8. April 2006

Here is a preliminary list of speakers. Please see the programme for the exact title and content of each talk. Each talk should last about 50 min. plus ten min. for discussion. If you have questions regarding the content of your talk, please contact one of the organizers (see programm for addresses). If you have general questions, don't hesitate to contact S. Goette.

1 Talks and Speakers

1. Classical torsion invariants. **J. Francis** (MIT).

2. Waldhausen K-Theory. **D. Husemöller** (MPIM Bonn).

3. Homotopy limits ..., I. **I. Schröder & V. Chernysh** (Göttingen).

4. Homotopy limits ..., II. **J. Weber** (MPIM Bonn).

5. Controlled topology ... **T. Macko & M. Joachim** (Münster).

6. Parametrized spectra ... **S. Kallel** (Villeneuve).

7. Proof of index theorem ... **M. Szymik** (Bochum).

8. Generalized Morse functions. **B. Hanke** (München).

9. A_∞ functors ... **J. H. Giansiracusa** (Oxford).

10. Kamber-Tondeur classes. **V. Neumaier & G. Tamme** (Regensburg).

11. Finite-dimensional torsion classes. **T. Kuessner** (Siegen).

12. Polylogarithms. **M. Hien** (Regensburg).

13. Higher Franz-Reidemeister torsion, I. **D. Crowley** (Heidelberg).

14. Higher Franz-Reidemeister torsion, II. **N. Wahl** (Chicago).

15. Axioms for higher torsion. **B. Badzioch** (Buffalo)

16. Computation of higher torsion. **U. Bunke** (Göttingen)

17. The Bismut-Lott index theorem ... **W. Dorabiala** (Penn State).

18. The Witten deformation ... **J. Schlüter** (Regensburg).

19. Higher Equivariant torsion ... **G. Weingart** (Bonn).

If you wish to make any changes (e.g. swap talks with somebody), please first make the necessary arrangements yourself, then contact S. Goette.

If you would like to participate in the Arbeitsgemeinschaft and you have not registered with the organizers yet, please contact S. Goette. It would be nice if you could first find someone from the list above who would like to share her/his talk with you.