

**Program for the workshop about**

**Belyi Maps and Dessins on Riemann Surfaces**

at the Mathematical Seminar of the Johann–Wolfgang–Goethe University Frankfurt a.M.,  
Institut für Algebra und Geometrie, during the week **between 2nd and 9th April 2006**,  
sponsored by the DFG (Deutsche Forschungsgemeinschaft),  
the Fachbereich Informatik und Mathematik and the Stummel–Stiftung.

All talks will take place in the **Grosser Hörsaal 308**, 3rd floor of Robert–Mayer–Str. **6**  
(**not** Robert–Mayer–Str. 8 ! )

**Monday 3rd April**

10.30 h Bernhard Köck (Southampton): Real Belyi theory I

12.00 h David Singerman (Southampton): Real Belyi theory II

15.00 h Ernesto Gironde Sirvent (UA Madrid):

On the faithfulness of the action of the absolute Galois group on dessins

Coffee and tea

17.00 h **Mathematisches Kolloquium:** Frank Herrlich (Karlsruhe)  
Teichmüller curves in moduli space

**Tuesday 4th April**

9.30 h Martin Möller (Essen):

Teichmüller curves, triangle groups, and maybe Lyapunov exponents

11.00 h Gabi Schmithüsen (Karlsruhe):

Particular Teichmüller curves in the moduli space defined by origamis

14.00 h Oliver Bauer (Karlsruhe): Jacobians of origamis

16.00 h Karsten Kremer (Karlsruhe):  $p$ -adic and complex origamis

17.30 h Fedor Pakovich (Ben Gurion Univ., Beer–Sheva):

Conservative polynomials and yet another action of the Galois group on plane trees

### **Wednesday 5th April**

10.00 h Gareth A. Jones (Southampton): Maps associated with Grigorchuk's group

11.30 h Daniel Pinto (Southampton):  
The construction of infinitely many hypermaps of a given type and genus

14.30 h Patrick Reichert (Halle/Magdeburg):  
Alternating factor groups of Fuchsian triangle groups

16.30 h Amir Džambić (HU Berlin): Chern numbers of two-dimensional ball quotients

### **Thursday 6th April**

10.00 h Gabino González Díez (UA Madrid):  
A criterion for a variety to be defined over a number field

11.30 h Yolanda Fuertes López (UA Madrid): Uniform maps on hyperelliptic surfaces

14.30 h Sasha Mednykh (Novosibirsk):  
Counting conjugacy classes of subgroups and unrooted maps on surfaces

16.30 h Jan-Christoph Schlage-Puchta (Freiburg):  
Statistics of subgroups of Fuchsian groups and uniform dessins

### **Friday 7th April**

10.00 h Roman Nedela (Banská Bystrica):  
Regular embeddings of complete bipartite graphs

11.30 h Jürgen Wolfart (Frankfurt a.M.): Complete bipartite graphs and Galois actions

14.30 h Helena Weitz (Southampton):  
Equivariant Riemann-Roch theorem for curves over perfect fields

16.30 h Andreas Weng (Frankfurt a.M./Stuttgart):  
Belyi's Theorem: A glimpse of higher dimensions

### **Saturday 8th April**

Common excursion to Mainz. Meeting at Frankfurt main station, track 103 (underground, S-Bahn S8, direction to Mainz) at 10.10 h. We will take the train at 10.17 h.

Guests are welcome!

02.04.2006

Jürgen Wolfart