

**CONACYT/DFG Workshop for the Preparation
of Joint Research Projects between German and Mexican Researchers
August 11 – 15th, 2008, Cuernavaca, Mexico**

Scientific coordinators: Thomas Guhr/University Duisburg-Essen
Achim Richter/TU Darmstadt
Thomas Seligman/UNAM

Program (as of July 09, 2008)

• **Monday, August 11, 2008**

10:15 Welcome Address
M. Jose, Director CIC

Session I: Chair – T.H. Seligman

10:30 **A. Richter, Darmstadt**
Overview on the Research Program in Quantum Chaos at the TU Darmstadt

11:00 **T. Friedrich, Darmstadt**
Quantum Echoes from Open Billiard Systems

11:45 *Coffee break*

12:15 **B. Dietz, Darmstadt**
Chaotic Scattering in Microwave Billiards: GOE Systems

13:00 *Lunch break*

14:30 **F. Schäfer, Darmstadt**
Chaotic Scattering in Microwave Billiards: GUE Systems

15:15 **M. Miski-Oglu, Darmstadt**
Barrier Billiard: Superscars and Nodal Domains

16:00 *Coffee break*

16:30 S. Bittner, Darmstadt
Experiments with Dielectric Circular Discs

17:15 P. Oria Iriarte, Darmstadt
Open Circular Billiard and Double Slit Experiments

18:00 *End of 1st day*

• **Tuesday, August 12, 2008**

Session II: Chair – A. Richter

10:30 T. Guhr, Duisburg-Essen
Overview on the Research Program in Quantum Chaos at the U of Duisburg-Essen

11:00 B. Gutkin, Duisburg-Essen
Time-Reversal Invariance Breaking by Purely Geometric Means

11:45 *Coffee break*

12:15 T. Guhr, Duisburg-Essen
Superscars in Billiards – A Model for the Doorway Mechanism

13:00 *Lunch break*

Session III: Chair – T. Guhr

14:30 T.H. Seligman, Cuernavaca
Overview on the Research Program in Classical/Quantum Chaos in Mexico

15:15 J. Flores, Mexico
Elasticity from One to Two Dimensions

16:00 *Coffee break*

16:30 **R.A. Mendez, Cuernavaca**
Direct Processes in Chaotic Scattering Systems with Losses

17:15 **C. Jung, Cuernavaca**
Chaotic scattering with 3 degrees of freedom

18:00 *End of 2nd day*

- **Wednesday, August 13, 2008**

Session III (ctd.): Chair – T. Guhr

10:30 **E. Sadurni, Cuernavaca**
Modeling Relativistic Quantum Systems on Graphene

11:15 **A. Mendez Bermudez, Puebla**
The Wigner-Lorentzian Random Matrix Ensemble and Quantized Chaotic Systems with Critical Statistics

12:00 *Coffee break*

12:15 **L. Benet, Cuernavaca**
Rotating Billiards: From Planetary Rings to Mesoscopics

13:00 *Lunch break*

Session IV: Chair – A. Richter

14:30 *Instrumentation (for the Experiments in Darmstadt)*

15:30 **R.A. Mendez, Cuernavaca**
Instrumentation (for the Experiments in Mexico)

16:30 *Coffee break*

Session V: Chair – J. Flores

17:00 *Round Table*

*J. Flores, T. Guhr, M. Martínez, R.A. Mendez,
A. Richter, T.H. Seligman as well as the observers from CONACYT and DFG))
on the Prospects of joint German/Mexican Research Projects*

19:30 *Tacos in the Cave*

Any time *End of 3rd day*

- **Thursday, August 14, 2008**

Session V

10:30 *Visit of Elasticity Lab at ICF-UNAM*

11:30 *Final Discussion and Formation of Individual Working Groups*

13:00 *Lunch break*

Session VI

14:30 *Informal Discussions within Individual Working Groups*

18:00 *End of 4th day*

- **Friday, August 15, 2008**

Session VI ctd.

10:30 *Informal Discussions within Individual Working Groups*

13:00 *Lunch break*

14:30 *Informal Discussions within Individual Working Groups*

18:00 *End of 5th day*
