Disclaimer

• All information in this document is correct by October 16, 2006
• The Helmholtz-Research School is still in the construction phase
  – Not all information is available
  – Dates and program details might change
Organization of Information

- Central place for all information:
  - Program
  - Transparencies
  - Links
  - Documents
  - Mailing lists (in prep) - archived
  - Members
  - Participants
  - News
  - Mail + Direct Contact (Coordinator)

http://flas.uni-frankfurt.de/helmholtz
The Partners of the School

Johann Wolfgang Goethe University Frankfurt am Main

GSI

FIAS Frankfurt Institute for Advanced Studies
More Partners

HELMHOLTZ GEMEINSCHAFT

OTTO STERN SCHOOL
for Integrated Doctoral Education
Helmholtz Research Schools?

- Helmholtz Research Association:
  - Funding Agency by German Government for Science
  - 15 research centers
  - Annual budget of approx 2.2 billion euros
  - Germany’s largest research institution

- New program for doctoral education

- 3 “pilot” programs
  - Frankfurt – Quark Matter Studies
  - Jülich / Cologne / Düsseldorf: Biosoft
  - Braunschweig / Hanover: Infection Biology
Members

Frankfurt
Institut für Kernphysik
- Prof. H. Appelshäuser
- JProf. C. Blume
- PD M. Gazdzicki
- Prof. K. Peters
- Prof. H. Ströbele
- Prof. J. Stroth

Institut für Theoretische Physik
- JProf. M. Bleicher
- JProf. D. Dumitru
- Prof. C. Greiner
- Prof. J. Maruhn
- Prof. D. Rischke
- HD J. Schaffner-Bielich

Center for Scientific Computing
- Prof. S. Schramm

GSI
Experiment
- Prof. P. Braun-Munzinger
- Prof. P. Senger
- Prof. W. Henning

Theorie
- Prof. H. Feldmeier
- Prof. B. Friman
- Prof. J. Knoll
- Prof. K.H. Langanke
- Prof. J. Wambach

FIAS
- PD E. Bratkovskaya
- Prof. I. Mishustin
- Dr. I. Shovkovy
- Dr. M. Strickland
- Prof. H. Stöcker
Participants

Altinpinar, Sedat… Experiment
Bailhache, Raphaelle… Experiment
Betz, Barbara… Theory
Djapo, Haris… Theory
El, Andrej… Theory
Fochler, Oliver… Theory
Guo Yun… Theory
Hauer, Michael… Experiment
Kliemant, Michael… Experiment
Kniege, Stefan… Experiment
Konchadovski, Volodymyr… Theory
Kresan, Dmytro… Experiment
Martinez, Mauricio… Theory
Petersen, Hannah… Experiment
Strüber, Stefan… Theory
Tarantola, Attilio… Experiment
Vogel, Sascha… Theory
Since the posting we received more than 160 applications

42 candidates were selected in the first review

The school can accept 25 participants

By today 17 participants were accepted
Formal Aspects

- Employment contract
  - With University
  - With GSI
  - With FIAS
- Scholarship contract
  - With FIAS / H-QM
- Code of conduct (in prep) with
  - H-QM
  - Helmholtz Association

- legal aspects
  - insurance, payment, rights and obligations

- scientific aspects
  - thesis projects, supervisors program, benefits, ethical aspects, etc.
Program - Overview

• 3 parts:
  – The scientific work (you, your science and your supervisor)
  – The scientific program (structured education)
  – Additional benefits
Program is Mandatory

• For all organized programs attendance is expected
• In case you can not participate: Contact the coordinator in time

• For weekly meetings (lectures, colloquia, etc.)
  – We try a self responsible attendance
  – In case of timing conflict: No note is expected
  – Participation should have high priority
Scientific Work

- PhD Comitee
  - PhD student
  - Supervisor (Frankfurt, GSI)
  - Co-supervisor (Frankfurt, GSI)
  - Neutral expert in the field
- Meeting every ½ year
- Working plan
- Milestones after ½ year
- Interim reports
  - after 1.5 years
  - after 2.5 years
# The Scientific Program

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* not mandatory for all
The scientific program – Basic Lecture

Thursdays, 11:00-13:00, IKF, Frankfurt, Room .101

26.10. Exp 2 (Blume)  28.12. no lecture - christmas break
02.11. Exp 3 (Blume)  04.01. no lecture - christmas break
09.11. Exp 4 (Blume)  11.01. Exp 7 (Appelshaeuser)
16.11. no lecture - Quark Matter  18.01. Theory 4 (Gyulassy)
23.11. Theory 1 (Stoecker)  25.01. Theory 5 (Gyulassy)
30.11. Theory 2 (Stoecker)  01.02. Theory 6 (Gyulassy)
07.12. Theory 3 (Stoecker)  08.02. Theory 7 (Gyulassy)
The scientific program – Colloquium

Thursdays, 16:30-18:00, IKF, Frankfurt, Room 2.116
-or-

Tuesdays, 16:00-17:30, GSI, Main Auditorium

One colloquium will be picked each week and announced

First colloquium:

Igor Dremin
Lebedev Phys. Inst., Moscow, Russia

Mach cones from jets vs. cerencov radiation in the QGP at RHIC and LHC
The scientific program – Special Lecture

- Incomplete list:
- Theory:
  - "Physics of Strongly Interacting Matter"
  - Mondays, 10:15-12:00, room 2.114
  - Elena Bratkovskaya / Igor Mishustin
The scientific program – Lecture Weeks

- Program not decided yet
- Dates not decided yet
- 1x two weeks per year – or - 2x one week per year
- Spring 2007
- Character – Retreat, not at GSI or Frankfurt
- Invited lecturers
The sc. program – Graduate School Days

• Program not decided yet
• Dates not decided yet

• 2-3 days per year
• Spring 2007

• GSI or Frankfurt
• Presentation of participants of their current work
• Audience: members + participants
The sc. program – H-QM conference

- Program not decided yet
- Dates not decided yet
- One scientific conference at the end of the 3-year period (spring 2009)
- Organized by H-QM
Benefits

• Participation in program of school
  – Local and remote events

• Support for
  – one big conference per year
    - or -
  – 2+ smaller conferences

• Soft skill program

• Participation in Events from Otto-Stern-School
• Participation in events from Helmholtz Association
Soft Skill Program

- Soft skills (examples):
  - Time management
  - Personal effectiveness
  - Communication
  - Presentation skills
  - Rhetoric skills
  - How to prepare a grant
  - Understanding the structure of research funding

- Program not fixed
- 4.5 Days - March 2007
- Combined course for all three Helmholtz Schools
- Professional trainers
Being a “Helmholtzonian”

• Important for Helmholtz Association to promote networking

• Participation in additional Helmholtz events possible
  – Helmholtz Juniors
    • Mutual visits of Research centers
    • Joint events with Graduate programs in other centers
  – Joint events with other Research Schools
  – “Meet the noble laureates”
Election of a Speaker

- According to the rules of the school a “speaker” has to be elected
- Suggestion:
  - Get to know each other better
  - (self) nominations can be send to the coordinator by end of the months
  - Nominations will be circulated
  - Vote will be organized thereafter

Coordination-Comitee

Director + Coordinator
H. Appelshäuser  H. Büsching

speaker participants

Meet 4x per year
Practical Aspects: Travel

• If you have a scholarship from H-QM:
  – Before:
    • You need to fill a H-QM travel request (on web)
    • You need to get approval
  – After:
    • You need to hand in travel receipts with travel form (on web)

• If you don’t have a scholarship from H-QM:
  – Before:
    • You need to fill a travel request from your employer
    • You need to fill a cost coverage request from H-QM
    • You need to get approval
  – After:
    • H-QM-part: You need to hand in travel receipts with travel form
      (on web)
For travel between GSI and Frankfurt
- collective reimbursement (every two months)
- form with dates/travel receipts
- Form on web (in prep.)

Joint travel is especially encouraged
Practical Aspects: Documentation

• Goal:
  – Provide structured reference

• Idea:
  – Make transparencies, scripts, material, ect. Available online

• Needs agreement from speakers

• Possibly private web area necessary
Practical Aspects: Cotutelle

- Combined thesis with a non H-QM university
- "Cotutelle-agreement"
- Has to be arranged on institutional level
- NOT a private agreement
- Currently planned for
  - Wuhan/China
  - Kiev/Ukraine
- Negotiations on presidential level underway