

INTERFACES BETWEEN PHYSICS AND COMPUTER SCIENCE



International University Bremen, 11-22 June 2007

Confirmed Speakers:

H. Briegel, Innsbruck
J. Bourdon, Nantes
D. S. Dean, Toulouse
M. R. Evans, Edinburgh
A. Hartmann, Göttingen
S. Kirkpatrick, Jerusalem
W. Langbein, Cardiff
S. Majumdar, Paris
S. Mertens, Magdeburg
M. Mézard, Paris
C. Moore, Albuquerque
S. Nechaev, Paris
D. Saad, Birmingham
G. Schön, Karlsruhe
J. Stolze, Dortmund
M. Weigt, Torino
R. Zecchina, Trieste

Organizer:

Prof. Dr. Hildegard Meyer-Ortmanns
School of Engineering and Science
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Topics include:

Optimization problems in physics and computer science
Algorithms and Graphs
Combinatorial optimization problems
Spin glasses and replica symmetry breaking
Error correcting codes and image restoration
Growth processes in physics
Diffusion limited aggregation
Traveling wave fronts of interfaces
Sorting and searching in computer science
Coding and the Lempel-Ziff algorithm
Quantum computation
Quantum algorithms of Shor and Grover
Experimental realizations of quantum computation



We invite applications from graduate students, PhD students and postdocs with a strong background in statistical physics, theoretical computer science or informatics. For your application we require your CV and two letters of recommendation. Please visit our website for further details:

<http://www.conferences.iu-bremen.de/heraeus/>

Early application deadline: February 28, 2007

Late application deadline: April 30, 2007

Contact: interfaces@iu-bremen.de