



Integrability in Gauge and String Theory

ZEIT:

23.7.2006 - 27.7.2006

ORT:

Max-Planck-Institut für Gravitationsphysik
(Albert-Einstein Institut)
Potsdam, Germany

PROGRAMM:**23.7.2006**

9:10 - 10:00 **Konstantin Zarembo**

Bethe Ansatz in Stringy Sigma-Models

10:00 - 10:30 Kaffeepause

10:30 - 11:20 **Zvi Bern**

The S-Matrix Reloaded: Twistors, Unitarity, Gauge Theories and Gravity

11:20 - 12:10 **Lev Lipatov**

Transcendentality and the Eden-Staudacher Equation

12:10 - 14:00 Mittagspause

14:00 - 14:50 **Igor Klebanov**

Strings, D-Branes and Gauge Theories

14:50 - 15:40 **Alexander S. Gorsky**

Different Images of Integrability in Gauge Theories**Kontakt:**

Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
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sfb647@math.hu-berlin.de

www.raumzeitmaterie.de

24.7.2006

9:10 - 10:00 **Arkady Tseytlin**

On the Spectrum of Strings in $AdS_5 \times S^5$

10:00 - 10:30 Kaffeepause

10:30 - 11:20 **Alexei Tsvelik**

Bethe Ansatz Applications to Problems in Gauge and String Theory

11:20 - 12:10 **Rafael Hernández**

Quantum Corrections to the String Bethe Ansatz

12:10 - 14:00 Mittagspause

14:00 - 14:50 **Diego Hofman**

Giant Magnons

14:50 - 15:40 **Jörg Teschner**

The Sinh-Gordon Model - A Warm-Up for Noncompact Nonlinear Sigma Models?

25.7.2006

9:10 - 10:00 **Nicolai Reshetikhin**

Integrability and Algebraic Structures

10:00 - 10:30 Kaffeepause

10:30 - 11:20 **Andrei Mikhailov**

Local Charges and Nonlocal Poisson Brackets

11:20 - 12:10 **Romuald A. Janik**

Crossing Equation for the $AdS_5 \times S^5$ S-Matrix

12:10 - 14:00 Mittagspause

14:00 - 14:50 **Nick Dorey**

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Magnon Boundstates and the AdS/CFT Correspondence

14:50 - 15:40 **Tristan McLoughlin**

Classical and Quantum Strings in AdS₅ x S⁵

26.7.2006

9:10 - 10:00 **Jean-Michel Maillet**

Correlation Functions of Heisenberg Spin Chains: Algebraic Bethe Ansatz Approach

10:00 - 10:30 Kaffeepause

10:30 - 11:20 **Frank Göhmann**

The Hubbard Chain - A Paradigmatic Integrable Model

11:20 - 12:10 **Joe Polchinski**

AdS/CFT and Integrability

12:10 - 14:00 Mittagspause

14:00 - 17:30

Marcel Grossmann Meeting 11

15:00 - Joe Minahan: Magnons in Gauge and String Theories

15:30 - Matthias Staudacher: Integrability, Transcendentality, and the AdS/CFT Correspondence

16:00 - Niklas Beisert: The S-Matrix of Planar AdS/CFT

16:30 - KAFFEPAUSE

17:00 - Emery Sokatchev: Four-Point Correlators in AdS/CFT: Old and New Facts

17:30 - David A. Kosower: On-Shell Methods in Field Theory

18:00 - Alexios Polychronakos: Calogero Fermions and N=4 SYM

18:30 - ENDE

27.7.2006

9:10 - 10:00 **Gleb Arutyunov**

On the AdS₅ x S⁵ String S-Matrix

10:00 - 10:30 Kaffeepause

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10:30 - 11:20 **Abhishek Agarwal**

D-Branes and Integrability

11:20 - 12:10 **Nadav Drukker**

Comments on Wilson Loops

12:10 - 14:00 Mittagspause

14:00 - 14:50 **Marija Zamaklar**

Finite-Size Effects from Giant Magnon

14:50 - 15:40 **Vladimir Kazakov**

Integrable Sigma Models Related to AdS/CFT

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