

Solvay Workshop

Bethe Ansatz, 75 years later

19 – 21 October 2006

ULB – Campus Plaine – Salle Solvay

Programme

Wednesday 18 October

Welcome Reception

Thursday 19 October

Chair: R. Brout

9:30 – 9:50 Opening by M. Henneaux, L. Faddeev and R. Brout

9:50 – 10:30 C.N. Yang “TBA”

10:30 – 10:50 Coffee Break

Chair: A. Alekseev

10:50 – 11:30 T. Miwa “Density Matrix of the XXZ Spin Chain”

11:30 – 12:10 F. Smirnov “Q-Oscillator and Correlation Functions for XXZ Model”

12:10 – 13:45 Lunch

Chair: O. Babelon

13:45 – 14:25 B. Sutherland “The Asymptotic Bethe Ansatz”

14:25 – 15:05 A. Zamolodchikov “Integrable Boundary Interactions”

15:05 – 15:45 K. Fabricius “An Elliptic Current Operator for the Eight Vertex Model”

Note: Coffee Break and 16:20-17:40 session will take place in Forum F

15:45 – 16:20 Coffee Break

16:20 – 17:00 V. Bazhanov “Analytic Theory of the Eight-Vertex Model”

17:00 – 17:40 N. Reshetikhin “The 6-Vertex Model with Fixed Boundary Conditions”

19:00 Banquet

Friday 20 October

Chair: H. Nicolai

9:30 – 10:10 B. McCoy *“The Six Vertex Model at Roots of Unity: Loop Algebra Symmetry and Representation Theory”*

10:10 – 10:50 J.-M. Maillet *“Correlation Functions of Heisenberg Spin Chains : the Algebraic Bethe Ansatz Approach”*

10:50 – 11:10 Coffee Break

11:10 – 11:50 L. Lipatov *“Transcendentality Property of N=4 Supersymmetric Gauge Theories”*

11:50 – 12:30 N. Beisert *“The S-Matrix of AdS/CFT”*

12:30 – 14:00 Lunch

Chair: L. Takhtajan

14:00 – 14:40 H. Saleur *“Enlarged Symmetries of Spin Chains and Loop Models”*

14:40 – 15:20 E. Sklyanin *“Bethe Equations: Towards an Exact Solution”*

15:20 – 16:00 V. Kazakov *“Classical Limit of the Bethe Ansatz for Stringy Sigma Models”*

16:00 – 16:20 Coffee Break

16:20 – 17:00 P. van Moerbeke *“Critical Infinite-Dimensional Diffusions and Non-linear Equations for their Transition Probabilities”*

17:00 – 17:40 V. Korepin *“XXX Spin Chain: from Bethe Solution to Open Problems”*

Saturday 21 October

Chair: P. Kulish

9:30 – 10:10 M.L. Ge *“Yang-Baxter Equation and Quantum Information”*

10:10 – 10:50 M. Staudacher *“The Hubbard Model and the AdS/CFT Correspondence”*

10:50 – 11:10 Coffee Break

11:10 – 11:50 K. Zarembo *“Bethe Ansatz in Stringy Sigma-Models”*