

THE HEBREW UNIVERSITY OF JERUSALEM
THE ISRAEL INSTITUTE FOR ADVANCED STUDIES

Joint Research Conference of the Israel Institute for Advanced
Studies and the Israel Science Foundation on:

STRING FIELD THEORY AND RELATED ASPECTS V,
SFT 2012

October 28 – November 1, 2012

All lectures will take place at the Feldman Building,
on the Edmond J. Safra, Givat Ram Campus

Organizing Committee:

Michael Kroyter, Yaron Oz, Jacob Sonnenschein (Tel Aviv University),
Adam Schwimmer (Weizmann Institute), Oren Bergman (Technion)

PROGRAM

Sunday, October 28

- | | |
|-------------|--|
| 9:00-9:30 | Registration |
| 9:30-10:00 | Greetings |
| 10:00-10:45 | Tomohiko Takahashi (Nara Women's University)
<i>Tachyon Vacuum in Marginally Deformed Backgrounds</i> |
| 10:45-11:15 | Coffee break |
| 11:15-12:00 | Isao Kishimoto (Niigata University)
<i>Nontrivial Solutions around Identity-Based Marginal Solutions in
Cubic Superstring Field Theory</i> |
| 12:00-12:45 | Matheson Longton (University of British Columbia)
<i>SFT on Separated D-Branes</i> |

- 12:45-14:15 Lunch
- 14:15-15:00 **Carlo Maccaferri** (Università di Torino)
Boundary State from Ellwood Invariants
- 15:00-15:45 **Matej Kudrna** (Institute of Physics ASCR)
Numerical Multi-Lump Solutions
- 15:45-16:15 Coffee break
- 16:15-17:00 **Daisuke Takahashi** (Rikkyo University, Tokyo)
Constraints on a Class of Classical Solutions in Open String Field Theory
- 17:00-18:00 **Yuji Okawa** (The University of Tokyo, Komaba)
Discussion: Solutions
- 18:00-19:00 Reception at the IAS lobby

Monday, October 29

- 9:15-10:45 **Ron Donagi** (University of Pennsylvania): Review talk
Non-Splitness of Super Moduli Space
- 10:45-11:00 Coffee break
- 11:00-11:45 **Taichiro Kugo** (YITP, Tokyo)
Gauge Fixing of Modified Cubic Open Superstring Field Theory
- 12:00-13:00 **Barton Zwiebach** (MIT): Colloquium
(Levin Building, hall 8)
Einstein's Gravity versus String Gravity
- 13:00-14:30 Lunch
- 14:30-15:15 **Yuki Iimori** (The University of Tokyo, Nagoya)
From the Berkovits Formulation to the Witten Formulation in Open Superstring Field Theory
- 15:15-16:00 **Michael Kroyter** (Tel Aviv University)
Superstring Field Theories and Marginal Ramond Deformations
- 16:00-16:30 Coffee break

- 16:30-17:15 **Shingo Torii** (The University of Tokyo, Komaba)
The Structure of Propagators in Open Superstring Field Theory
- 17:15-18:15 **Barton Zwiebach** (MIT) Discussion: *Superstring Field Theories*

Tuesday, October 30

- 9:30-11:00 **Chris Hull** (Imperial College London): Review talk
Double Field Theory
- 11:00-11:30 Coffee break
- 11:30-12:15 **Barton Zwiebach** (MIT)
Seeking a Type II NS-NS Closed String Field Theory in the Large Hilbert Space
- 12:15-13:00 **Francis Bursa** (University of Glasgow)
Lattice String Field Theory: The Linear Dilation in One Dimension
- 13:00-14:30 Lunch
- 14:30-15:15 **Korbinian Muenster** (Arnold Sommerfeld Center for Theoretical Physics)
Minimal Model Theorem of Quantum Closed String Field Theory
- 15:15-16:00 **Ivo Sachs** (Arnold Sommerfeld Center for Theoretical Physics)
On Homotopy Algebras and Quantum String Field Theory
- 16:00-16:30 Coffee break
- 16:30-17:15 **Loriano Bonora** (SISSA, Trieste)
The Importance of Being Zero
- 17:15-18:15 Discussion

Wednesday, October 31

- 9:15-10:00 **Martin Schnabl** (Institute of Physics ASCR)
Ising Model D-Branes from String Field Theory
- 10:00-10:45 **Amihay Hanany** (Imperial College London)
Specular Duality

- 10:45-11:15 Coffee break
- 11:15- 12:00 **Nobuyuki Ishibashi** (University of Tsukuba)
Energy from the Gauge Invariant Observables
- 12:00-12:45 **Ted Erler** (Institute of Physics ASCR)
Connecting Solutions with Singular Gauge Transformations
- 12:45-14:00 Lunch
- 14:00 Jerusalem Excursion
- 18:30 Conference dinner at the Eucalyptus Restaurant

Thursday, November 1

- 9:30-11:00 **Mikhail Vasiliev** (Lebedev Physical Institute): Review talk
Ideas and Structure of Higher-Spin Gauge Theory
- 11:00-11:30 Coffee break
- 11:30-12:15 **Irina Aref'eva** (Steklov Mathematical Institute, Moscow)
Holographic Thermalization with SFT Inspired Action
- 12:15-13:00 **Alexey Koshelev** (Vrije Universiteit Brussel)
SFT and p -adic String Based Cosmological Models
- 13:00-14:30 Lunch
- 14:30-15:15 **Itzhak Bars** (University of Southern California)
Moyal Star Formulation of SFT in the Worldsheet σ -basis for any String Background
- 15:15-16:00 **Dmitry Rychkov** (University of Southern California)
Aspects of the Moyal Formulation in SFT
- 16:00-16:30 Coffee break
- 16:30-17:15 **Laurent Baulieu** (LPTHE, Université Pierre et Marie Curie)
Infra Red Questions for String Observables
- 17:15-18:00 **Toshifumi Noumi** (The University of Tokyo, Komaba)
Effective Field Theory Approach to Quasi-Single Field Inflation