

# Confining Flux Tubes and Strings

## PROGRAM

### MONDAY July 5: **Gauge-gravity duality**

Morning      Chair: Teper

9:30 Welcome/Information

9:45 Nunez : Aspects of gauge-strings duality: a review

10:45 coffee break

11:15 Sonnenschein : String holography : a review

12:15 Vyas : Intrinsic width of flux tubes from gauge-gravity duality

13.00 lunch

Afternoon      Chair and discussion moderator: Aharony

15.10 Stephanov : AdS/QCD and charmonium at finite temperature

15.35 Makeenko : QCD/string Wilson loops and scattering amplitudes

16.00 tea/coffee

16.30 discussion

### TUESDAY July 6: **Confinement**

Morning      Chair: Caselle

9:30 Greensite : Overview of the confinement problem

10:30 coffee break

11:00 Nair : The Hamiltonian approach to YM (2+1)

11.45 Konishi : Non-Abelian monopoles and vortices - on the mystery of quark confinement

13.00 lunch

Afternoon      Chair and discussion moderator: Shifman

15.10 Greensite : Testing vacuum wavefunctionals on the lattice

15.35 Rajantie : Soliton form factors from lattice simulations

16.00 tea/coffee

16.30 discussion

### WEDNESDAY July 7: **Flux tubes**

Morning      Chair: Nair

9:30 Shifman : Non-Abelian strings in supersymmetric YM : new insights in confinement

10.30 Armoni : k-strings : a review (theory)

11.00 coffee break

11.30 Lucini : k-strings : a review (lattice)

12.00 Auzzi : Quantum phases of vortex strings in  $N=1^*$  theory  
13.00 lunch

Afternoon Chair and discussion moderator: Greensite

15.10 Rodgers : Some quantum aspects of k-strings from gauge/gravity duality  
15.35 Lucini : Unstable string decay from mixed representation correlators  
16.00 tea/coffee  
16.30 discussion

#### THURSDAY July 8: **Effective string actions**

Morning Chair: Armoni

9:30 Aharony : The effective action on long strings  
10.30 Drummond : The universal subleading spectrum of effective string theory  
11.00 coffee break  
11.30 Gliozzi : Effective string properties of the flux tube  
12.00 Caselle : Effective string theory for finite T lattice gauge theories  
12.30 Baker : The action for long strings in effective magnetic  $SU(N)$  gauge theory  
13.00 lunch

Afternoon Chair and discussion moderator: Meyer

15.00 Teper :  $SU(N)$  closed flux tube spectrum:  $D=2+1$  and  $D=3+1$   
16.00 tea/coffee  
16.30 discussion

Evening: Conference Dinner

#### FRIDAY July 9: **Flux tubes and strings - lattice**

Morning Chair: Sonnenschein

9:30 Gliozzi : Width of the confining string in lattice gauge theories  
10.00 Caselle : Linear increase of the flux tube width at finite T  
10.30 Meyer : Measures of the width of the confining string  
10.55 coffee break  
11.25 Falcone : Study of flux tube profiles from lattice QCD  
11.50 Narayanan : Strong to weak coupling transition in large N gauge theories  
13.00 lunch

Afternoon Chair and discussion moderator: Lucini

16.00: End Meeting