

2ndGLCW

2nd Great Lakes Cosmology Workshop

May 6-8, 1994

Summary of Events

Gravitation & Particle Astrophysics	Friday	1pm - 5pm
BBN & Cosmic Rays		7pm - 9:30pm
Large Scale Structure	Saturday	9am - 1pm
Softball Game		2pm - 5pm
Physical Cosmology		7pm - 9:30pm
Tour of Yerkes Observatory		9:30pm
CMBR & Peculiar Velocities	Sunday	9:30am - 2pm

Hosted by the Fermilab Astrophysics Groups and the
University of Chicago Department of Astronomy and Astrophysics

**Friday, May 6: 1 - 5pm
Particle Astrophysics & Gravitation**

Room: Nantucket North
Organizer: Robert Caldwell

<u>Time</u>	<u>Speaker</u>	<u>Title</u>
1:00 - 1:25pm	Paul Casper	A closed-form expression for the gravitational radiation rate from cosmic strings
1:30 - 1:55	Bruce Allen	Gravitational radiation from a limited class of cosmic string loops
15 minute break		
2:15 - 2:40	Dima Semikoz	Kinetics of bose condensation and bose star formation
2:45 - 3:10	Sukanta Bose	Radiation from a 2-d evaporating black hole
3:15 - 3:40	Jorma Louko	2+1 gravity on nonorientable spacetimes
15 minute break		
4:00 - 4:25	Rich Holman	Non-equilibrium phase transition dynamics
4:30 - 4:55	Angela Olinto	Density perturbations from primordial magnetic fields

**Friday, May 6: 7 - 9:30pm
Big Bang Nucleosynthesis & Cosmic Rays**

Room: Nantucket North
Organizer: Evalyn Gates

<u>Time</u>	<u>Speaker</u>	<u>Title</u>
7:00 - 7:25pm	Katie Freese	Inflation
7:30 - 7:55	Brian Fields	New light element observations
8:00 - 8:25	Dave Thomas	New bounds on the baryon density from BBN
8:30 - 8:55	Geza Gyuk	Relaxing the big bang constraints: decaying tau neutrinos and nucleosynthesis
9:00 - 9:25	Gunter Sigl	On the origin of the highest energy cosmic rays

Saturday, May 7: 9am - 1pm

Large Scale Structure

Room: Nantucket North

Organizer: Albert Stebbins

<u>Time</u>	<u>Speaker</u>	<u>Title</u>
9:00 - 9:25am	Gus Evrard	Hierarchical clustering
9:30 - 9:55	Kathy Romer	Large scale distribution of x-ray clusters of galaxies
15 minute break		
10:15 - 10:40	Jim Fry	Gravity, bias, and the galaxy three-point function
10:45 - 11:10	Jon Loveday	Variation of galaxy clustering with luminosity and morphological type
11:15 - 11:40	Bob Nichol	Faint galaxy counts towards the Coma cluster
15 minute break		
12:00 - 12:25pm	Barbara Ryden	Cosmological distribution of voids
12:30 - 12:55	Rick Watkins	Density estimation with kernels

GLCW Softball Game: 2 - 5pm

Saturday, May 7: 7 - 9:30pm

Physical Cosmology

Room: Key Largo

Organizer: Jon Loveday

<u>Time</u>	<u>Speaker</u>	<u>Title</u>
7:00 - 7:25pm	Steve Kent	Description and status of the SDSS
7:30 - 7:55	Chris Metzler	Accuracy of x-ray cluster mass measurements
8:00 - 8:25	Izumi Murakami	Dynamical heating and metallic gas supply by elliptical galaxies in rich clusters
8:30 - 8:55	Avery Meiksin	Constraints on the UV background from QSO absorption systems
9:00 - 9:25	Fred Adams	Non-linear waves and solitons in self-gravitating fluid systems

Tour of Yerkes Observatory: 9:30pm

**Sunday, May 8: 9:30am - 2pm
CMBR & Peculiar Velocities**

Room: Nantucket North
Organizer: Scott Dodelson

<u>Time</u>	<u>Speaker</u>	<u>Title</u>
9:30 - 9:55am	Lawrence Krauss	Correlations, uncertainties, and BBN limits
10:00 - 10:25	Jeff Peterson	CMBR experiments

15 minute break

10:45 - 11:10	Lloyd Knox	Testing inflation with the CMBR
11:15 - 11:40	Scott Koranda	CMBR anisotropy from gravitational perturbations in inflationary cosmologies
11:45 - 12:10pm	Arthur Kosowsky	Polarization of the CMBR

15 minute break

12:30 - 12:55	Hume Feldman	Analysis of Lauer-Postman data
1:00 - 1:25	Elizabeth Praton	Transverse motions and redshift-space artifacts
1:30 - 1:55	Andrew Jaffe	Likelihoods and large scale flows

2nd GLCW ends

