

PROGRAM

UEC International Symposium on Atom Optics and Coherence

August 17 - 19

Meeting room at 8th floor of the Higashi-4 building

August 17 morning 9:00-10:40

Chairman W.D.Phillips

F.Shimizu Opening remarks

H.Takuma ご挨拶

H. Walther From micromaser to microlasers

Roy J. Glauber Interactions of light with trapped atoms and ions

11:00-13:00

John L. Hall Coherent sources Improvement, measurement, and applications

Masao Kitano Geometry of one-dimensional wave propagation

Tsutomu Yabuzaki Physics of neutral atoms in superfluid helium

August 17 afternoon 14:20-15:20

Chairman J.L.Hall

Steve Chu Precision atom interferometry and experiments with single DNA molecules

Atuo Morinaga Measurement of polarizability of calcium using atom interferometer
comprised of four copropagating traveling laser beam

15:50-17:10

Wolfgang Ertmer Atom optics with laser prepared atoms

Makoto Morinaga Atom Holography

H.Takuma Title to be announced

17:10-

Ken-ichi Ueda An introduction to ILS

ILS tour (with complimentary drinks and foods)

August 18 morning 9:00-10:20

Chairman Steve Chu

W. D. Phillips Atoms in optical lattices: cooling and Bragg scattering

Andreas Hemmerlich Atomic lattice bound by light

Ken-ichi Nakagawa A transient response of recoil-induced resonance in cold atoms:
a novel method for the observation of atomic dynamics .

10:40-12:00

Alain Aspect Laser cooling by coherent population trapping

Carl Wieman Coherent atoms to go with coherent light; Bose-Einstein condensation
with laser cooled atoms

August 18 afternoon 14:00-15:50

Chairman Tutomu Yabuzaki

Anton Zeilinger Experiments with atoms as waves and particles: A new atom
interferometer and its classical analog

John F. Clauser Talbot-Lau atom interferometry

Nobuyuki Imoto Two-particle interferometry: coherence and indistinguishability

16:20-17:50

Yoshihisa Yamamoto Number state interferometer and measurement of photonic de Broglie
wavelength

Tohya Hiroshima Nonlinear optical response of cold atoms

18:30-

Banquet (at Creston Hotel)

August 19 morning 9:00-11:00

Chairman Yoshihisa Yamamoto

Tilman Pfau Experiments with correlated atom-photon states

Mark Kasevich Quantum statistics with laser cooled atoms

Fujio Shimizu Two atom correlations