



"Zakopane"? Among Physisists: Cracow School of Theoretical Physics

The oldest physics school of modern times

of Theoretical Physics

Had I only known, I was near





Note: QGP and Superstrings=non perturbative methods; in one line 20y ahead of its time

Inne 3-15. 1987. Zakopane, Poland

Structure of Fundamental Interactions

The School is organized by Institute of Physics, Jagellonian University in collaboration with Institute of Nuclear Physics and Copernicus Astronomical Center, Polish Academy of Sciences Kraków, Poland

Topics include: quark-gluon plasma, superstrings. nonperturbative methods and recent experimental results Lecturers include:

B. Buschbeck, Vienna A. Casher. TelAvive I.T. Diatlov, Leningrad M. Derrick, Argonne M. Duff. CERN L.L. Frankfurt, Leningrad H. Fritzsch. CERNs U. Heinz, Brookhaven G. 't Hooft, Utrecht F. Karsch. CERN J.G. Taylor, King's College, London

A. Krzywicki, CERN F. Lobkowicz, Rochester U. Maor, TelAviv A.A. Migdal, Moscows S. Nussinov, TelAvive B. Petersson, Bielefeld J. Rafelski. Capetown I. Sarcevic. Los Alamos. H. Satz. Bielefeld. K. Sibold, MPI Munich

- not yet confirmed

Place: Zakopane, a picturesque spot in Tatra Mountains, Hotel DW "Swierk", Zakopane, Piaseckiego 14a, Tel (0165) 50 01 Day of arrivals: June 3; day of departures: June 15. Cost of the School incl. board and lodging US\$ 200. No special application form required.

Institute of Physics. Dr W. Słomiński, Mailing address: Jagellonian University, PL-30-059 Kraków, Reymonta 4 POLAND (012) 33 63 77 ext. 568 (012) 33 91 68: Tel.: Tlx.: 322723





• Hadronic signatures of deconfinement

Zakopane 1997:

- SHM Analysis of results of SPS experiments
- 200 GeV S-A Strangeness results consistent with QGP
- Thermal and near chemical equilibrium
- Transverse expansion at velocity of sound, no longitudonal scaling
- Production in plasma of strangeness with running QCD parameters
- Entropy / Multiplicity excess relation to QGP

Diagnosis of QGP with Strange Hadrons Bc Production as Signal for Deconfinement

- Slate of Predictions for RHIC strange and heavy flavors – recombination model presented
- Full analysis of Pb-Pb CERN results in single freeze-out model with chemical nonequilibrium
- Entropy and hadron yield a key part of discussion





Strangeness and Statistical Hadronization – how to study QGP

- The energy scane produced the horn and we did point out that this is well described in chemical nonequilibrium hadronization
- Full analysis of RHIC 200 and 130 data points decisively to similar hadronization conditions as at SPS 200.
- Flow impact on hadronization temperature discussed





Zakopane, Poland

A striking experience



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