



Caucasian-German School and Workshop on Hadron Physics

UNESCO Regional Bureau for Science in Europe
Georgian Academy of Sciences – Tbilisi State University

30.08.2004 – 04.09.2004
Tbilisi, Georgia

Monday, August 30 (10⁰⁰ – 19⁰⁰)

Chairman: Academician Albert Tavkhelidze

- 10⁰⁰ Uwe Schramm (*German ambassador*): Welcome address 10'
- L1 Hans Ströher: Status and perspectives of hadron physics in Europe 30'
- T1 Colin Wilkin: Meson production in pp , pn , dp and dd interactions 30'
- T2 Volker Hejny: η production in dd interactions 20'
- T3 Timo Mersmann: Investigation of the ${}^3\text{He}\eta$ -system 15'
- T4 Yury Valdau: K^+ production in pn interactions 15'

12⁰⁰ - 12²⁰ Coffee break

Chairman: Prof. Hans Ströher

- T5 Vera Kleber: Light scalar meson production at COSY 20'
- T6 Vadim Baru: Theoretical model for scalar meson production 20'
- T7 Irakli Keshelashvili: Φ -meson production in pp interactions 20'
- T8 Yoshikazu Maeda: Φ -meson production in pn interactions 15'

13³⁵ - 15⁰⁰ Lunch break

- T9 Yury Uzikov: Parity determination of the pentaquark in NN collisions 25'
- T10 Wolfgang Eyrich: Search for the pentaquark Θ^+ state 30'
- T11 Vladimir Koptev: Pentaquark search at ANKE 15'
- T12 Ashot Gasparyan: Hyperon-nucleon interaction and strangeness production 20'
- T13 Mikhail Nekipelov: Experiments on in-medium K^+ -meson production 20'
- T14 Michael Hartmann: Plans for K^- production in pA reactions at ANKE 20'

17¹⁰ - 17³⁰ Coffee break

Chairman: Prof. Mikheil Nioradze

- T15 Izabella Zychor: Evidence for a new Y^* hyperon in pp collisions at ANKE 20'
- T16 Wolfgang Schroeder: Strong contribution of the N^* resonances in the Λ production at TOF 20'
- L2 Revaz Shanidze: Astroparticle physics with hadrons and leptons 30'
- L3 Akaki Liparteliani: Rare beauty as windows onto extra dimensions 30'
- 20⁰⁰ Georgian movies

Tuesday, August 31 (9⁰⁰ – 18⁰⁰)

Chairman: Prof. Colin Wilkin

L4	Frank Rathmann: Polarization experiments in storage rings	30'
L5	Erhard Steffens: Polarized beams	30'
T17	Bernd Lorentz: Polarimetry at COSY	20'
T18	David Chiladze: Deuteron polarimetry at ANKE	20'
T19	Ralf Engels: Polarized internal target at ANKE	20'
T20	Kirill Grigoriev: Cell tests for ANKE	15'

11¹⁵ - 11³⁵ Coffee break

T21	Manfred Dillig: Short range dynamics in the pp and the pd system	30'
T22	Pia Engblom: Spin dependence in pd reactions at intermediate energy	25'
T23	Yury Uzikov: The deuteron breakup reaction ($\vec{p}\vec{d}$) (theory)	20'
T24	Sergey Yaschenko: The deuteron breakup reaction ($\vec{p}\vec{d}$) ($d\sigma/d\Omega$)	20'
T25	George Macharashvili: The deuteron breakup reaction ($\vec{p}\vec{d}$) (A_y)	20'

13³⁰ - 15⁰⁰ Lunch break

Chairman: Prof. Teimuraz Kopaleishvili

T26	Ruprecht Machleidt: NN interaction at intermediate energy	45'
T27	Colin Wilkin: Polarized charge-exchange reaction (theory)	25'
T28	Andro Kacharava: Polarized charge-exchange reaction (experiment)	20'
T29	Viktor Glagolev: The charge-exchange reaction studies at JINR	15'
T30	Ralf Schleichert: Double polarization pn experiments	25'

17¹⁰ - 17³⁰ Coffee break

L6	Hellmut Seyfarth: Spin effects in hydrogen and deuterium recombination	30'
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19⁰⁰ - 19⁴⁵ Evening Lecture (in Georgian)

L7	Andro Kacharava: Jülich and its Research Center: History, Present and Future	45'
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Thursday, September 2 (9⁰⁰ – 18³⁰)

Chairman: Prof. Erhard Steffens

- T31 Magnus Wolke:** WASA at CELSIUS and η' decays with WASA at COSY 30'
- T32 Markus Büscher:** Key experiments for WASA at COSY 25'
- T33 Carsten Schwarz:** Hadron physics at FAIR (PANDA, CBM) 30'
- T34 Raimund Tölle:** HESR-project in FAIR at GSI 20'
- L8 Nikolay Nikolaev:** Spin physics in QCD 30'

11¹⁵ - 11³⁵ Coffee break

- T35 Nikolay Nikolaev:** Double spin asymmetry (transversity) 30'
- T36 Paolo Lenisa:** Polarized Antiproton Experiments (PAX) 30'
- T37 Marco Contalbrigo:** PAX detector concept 30'
- T38 Leila Chiqovani:** Study of top quark rare decays via FCNC at LHC 25'

13³⁰ - 15⁰⁰ Lunch break

Chairman: Prof. Anzor Khelashvili

- T39 Detlev Gotta:** Hadronic atoms (experiment) 30'
- T40 Dieter Grzonka:** Nuclear and particle physics with FLAIR at FAIR 30'
- T41 Temur Nadareishvili:** Problem of additional solutions in the nonrelativistic and relativistic equations 30'

16³⁰ - 17⁰⁰ Coffee break

- T42 Mirian Tabidze:** Bose-Einstein correlation from the DELPHI data 25'
- T43 Archil Garishvili:** A search for R-parity violating scalar top decays in e^+e^- collisions 20'
- T44 Revaz Shanidze:** Initiative for a TANDEM regional center for Caucasus 30'
- 18¹⁵ Hans Ströher:** Workshop Summary

19³⁰ Banquet