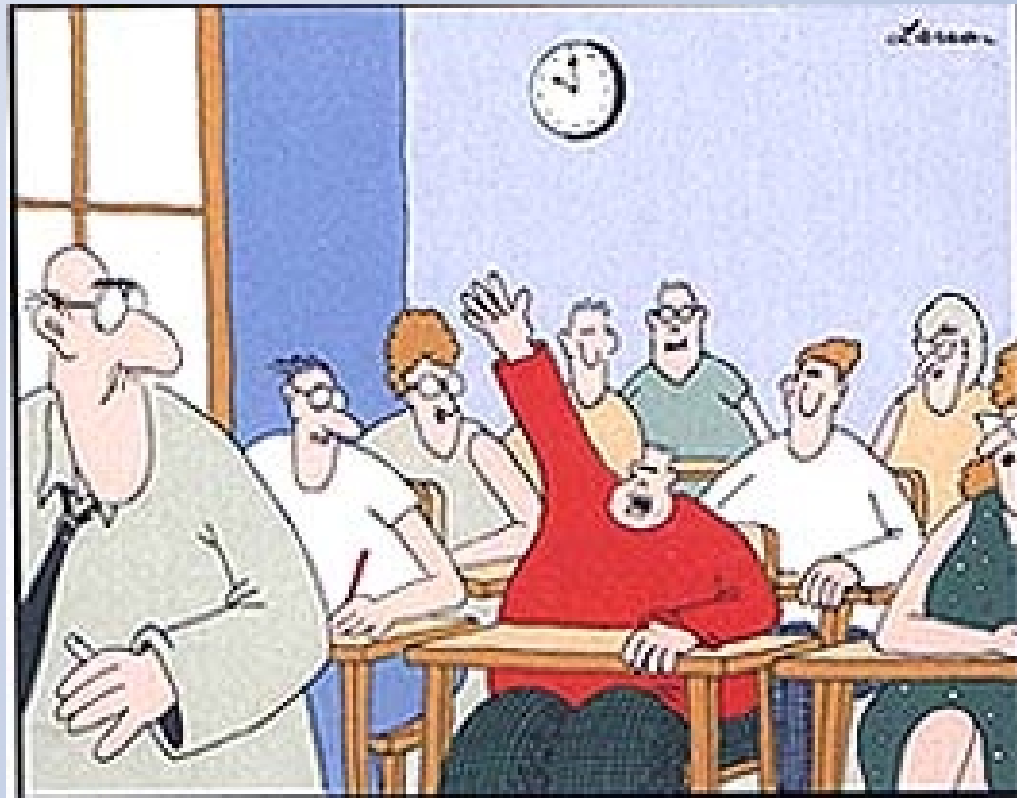

Hans Ströher

Workshop Summary





Mr. Chairman may I be excused?
My brain is full."

Overview:

Lectures

Overview talks

Current COSY experiments + theory

New proposals + theory

Technical issues, facilities

High energy



Science policy:

H. Ströher: Hadron physics in Europe

Evening lecture:

A. Katcharava: Jülich and its Research Center



Hadron physics:

F. Rathmann: Polarization experiments in storage rings

E. Steffens: Polarized beams

N. Nikolaev: Spin physics in QCD

H. Seyfarth: Spin effects in H- and D-recombination



High energy physics:

R. Shanidze: Astroparticle physics with hadrons and leptons

A. Liparteliani: Rare beauty as windows onto extra dimensions

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Hadron physics – overview talks:

D. Gotta: Hadronic atoms

R. Machleidt: Nucleon-Nucleon interaction

C. Wilkin: Meson production

P. Thörnngren: Spin dependence in pd reactions



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Hadron physics - experiment:

V. Kleber: Light scalar meson production at COSY

I. Keshelashvili: ϕ -meson production in pp interactions

Y. Maeda: ϕ -meson production in pn interactions

I. Zychor: Evidence for a new Y^* hyperon in pp

W. Eyrich: Search for the pentaquark q^+ state

Y. Valdau: K^+ production in pn interactions

A. Katcharava: Polarized charge exchange reaction

V. Glagolev: The charge exchange reaction studies

S. Yaschenko: The deuteron breakup reaction



Hadron physics – experiment (cont.):

G. Macharashvili: The deuteron breakup reaction

V. Hejny: η production in dd interactions

M. Nekipelov: Experiments on in-medium K^+ -meson



Hadron physics – theory:

V. Baru: Flattè-parametrization of s-wave resonances

A. Gasparian: Hyperon-nucleon interaction and strangeness

Y. Uzikov: Parity determination of the pentaquark

C. Wilkin: Polarized charge exchange reaction

N. Nikolaev: Double spin asymmetry (transversity)



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Hadron physics – proposals and plans for new experiments:

R. Schleichert: Double polarization pn experiments

T. Mersmann: Investigation of the $3\text{He}\eta$ -system

M. Hartmann: Plans for K^- -production in pA reactions at ANKE

M. Wolke: WASA at CELSIUS and η' decays with WASA at COSY

M. Büscher: Key experiments for WASA at COSY



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Hadron physics – technical issues:

B. Lorentz: Polarized beams at COSY

D. Chiladze: Deuteron polarimetry at ANKE

R. Engels: Polarized internal target at ANKE

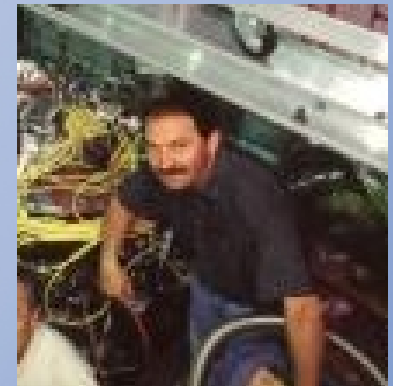
K. Grigoriev: Cell tests for ANKE

R. Tölle: HESR-project in FAIR at GSI

P. Lenisa: Polarized antiproton experiments (PAX)

D. Grzonka: FLAIR at FAIR

R. Shanidze: A TANDEM regional center for Caucasus



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High energy physics – Current experiments:

M. Tabidze: BEC from the DELPHI data

A. Garishvili: R-parity violating scalar top decays

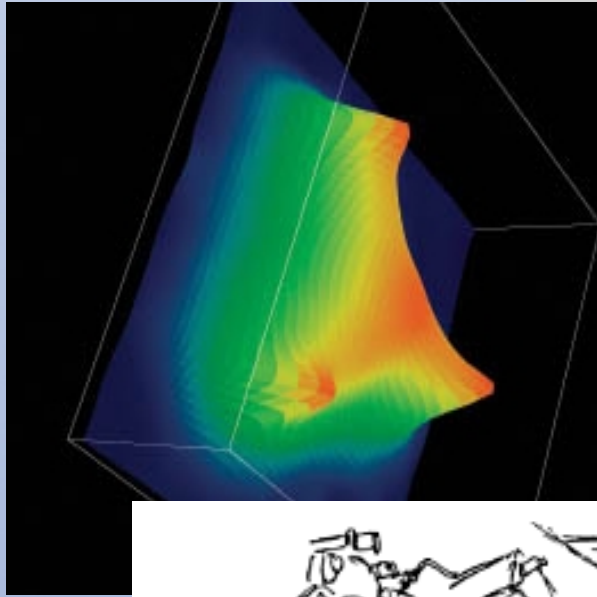
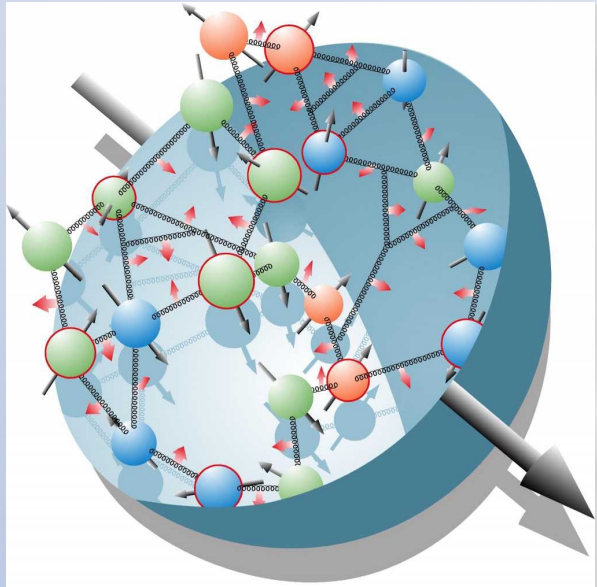
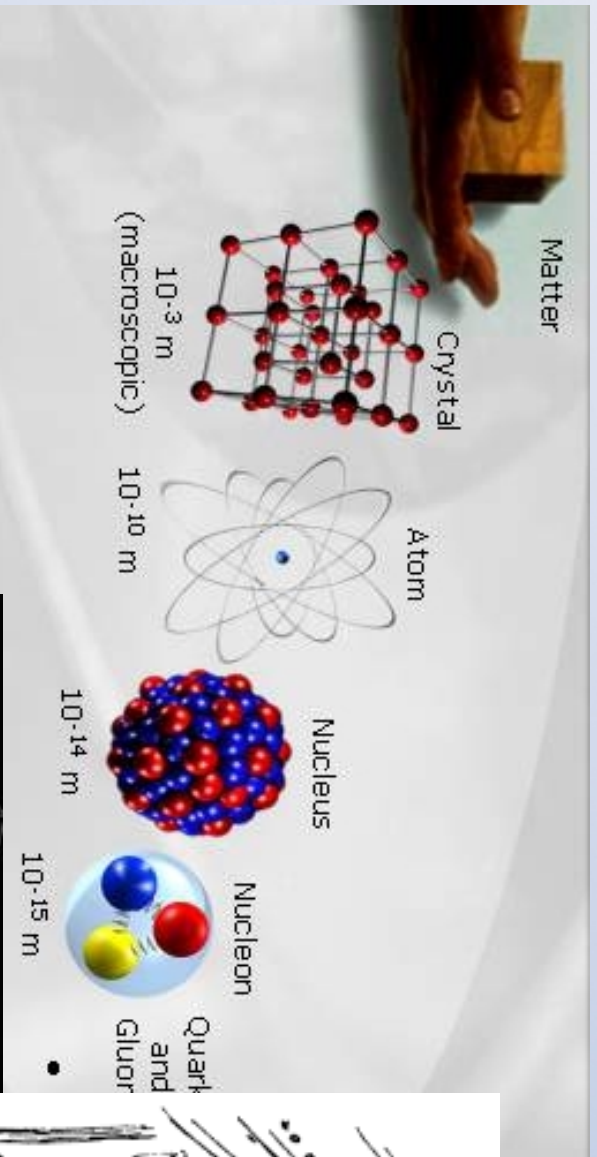
High energy physics – Ideas for searches at LHC (ATLAS)

L. Chigovani: Top quark rare decays via FCNC at LHC

V. Kartelishvili: Gluino-gluino bound states

Other:

T. Nadareishvili: Additional solutions



"Particles, particles, particles."

Bottomline

- **First Caucasian-German School and Workshop on Hadron Physics**
 - First big physics meeting in Georgia since independence
 - Scientific success
 - Regular basis (~ 2 yrs)
 - LANL-Archive; CD-ROM (need talks by 9/04)
- **Increase interest** and, as a consequence, **cooperation and involvement** of:
 - Faculty (HEPI)
 - Students and Post-Doc's

in current and new facilities (and the physics!) in Europe

Thanks

- **Support:**

- Tbilisi State University (Rector: Academician Roin Metreveli and Prorector: Prof. Anzor Khelashvili)
- Academician Albert Tavkhelidze
- Georgian Ministry of Foreign Affairs (Consulate Berlin)
- German Embassy (Mirko Schilbach)
- HEPI (Prof. M. Nioradze) (Academician Nodar Amaglobeli)
- UNESCO Regional Bureau (Prof. Merab Eliashvili)
- Sponsor KAZBEGI
- Research Center Jülich (FZJ)

- **Speakers (and accompanying persons):**

- Talks, contributions, ..., mood

- **Organizers:**

- Nelly Magalashvili (women 's programme)

Dr. Andro Katcharava
(incl. family, friends, and colleagues)

“didi madloba”



"Quarks. Neutrinos. Mesons. All those damn particles
you can't see."



"Quarks. Neutrinos. Mesons. All those damn particles
you can't see. That's what drove me to drink.
But now I can see them!"

Well then:

Let's give it
(another) try !!!!

The End

