

Helmholz International School "HEAVY QUARK PHYSICS"

June 6 – 16, 2005, JINR, Dubna

The first week 6-11/June 2005

time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10:00-11:00	Ali	Ali	Ali	Beneke	Beneke	excursion
11:00-12:00	Fleischer	Fleischer	Fleischer	Borisov	Lunghi	
12:00-12:30	break	break	break	break	break	
12:30-13:30	Ivanov	Blaschke	Borisov	Beneke	Lunghi	
13:30-15:00	lunch	lunch	lunch	lunch	lunch	
15:00-16:00	Lyubovitskij	Hoecker	Parkhomenko	Parkhomenko	Stancu	
16:00-17:00	Hoecker	Kirilin	Hoecker	Likhoded	Stancu	picnic
17:00-17:30	break	break	break	break	break	
17:30-18:00	Rohrer	Sidorova	Virto	Zhuridov	Pivovarov	
18:00-18:30	Kloker	Lipatov	Slad	Vasin	Pivovarov	
19:00	reception					

The second week 13-16/June 2005

time	Monday	Tuesday	Wednesday	Thursday
10:00-11:00	Heitger	Heitger	Roberts	Roberts
11:00-12:00	Satz	Satz	Grozin	Grozin
12:00-12:30	break	break	break	break
12:30-13:30	Koerner	Koerner	Saleev	Faustov
13:30-15:00	lunch	lunch	lunch	lunch
15:00-16:00	Zotov	Roberts	Gerasimov	Galkin
16:00-16:30	Cherednikov	Guazzini	Lansberg	seminar
16:30-17:00	Aslam	Rogal	Lansberg	seminar
17:00-17:30	break	break	break	break
17:30-18:00	Alimujiang	Fritzscht	Gilani	talk

Saturday, June 11 **Excursion to Sergiev Posad**
Sunday, June 12 **Excursion to Moscow**

Lectures

1. **Ali, Ahmed** (DESY)
3 lectures:
 - (1) *"An Overview and Current Status of the CKM matrix"*
 - (2) *"Radiative Rare B decays"*
 - (3) *"Semileptonic and Leptonic Rare B decays"*

2. **Beneke, Martin** (Aachen, Tech. Hochsch.)
3 lectures:
"Soft-collinear effective theory"

3. **Blaschke, David** (GSI & JINR)
1 lecture:
"The present status of charmonium production and dissociation processes"

4. **Borisov, Anatoly V.** (MSU, Moscow)
2 lectures:
 - (1) *"Rare meson decays mediated by Majorana neutrinos"*
 - (2) *"Heavy Majorana neutrinos in high-energy lepton-proton collisions"*

5. **Faustov, Rudolf N.** (Computing Ctr, Moscow)
1 lecture:
"The relativistic quark model and the properties of heavy quarkonium."

6. **Fleischer, Robert** (DESY)
3 lectures:
"Flavour Physics and CP Violation"

7. **Galkin, Vladimir O.** (Computing Ctr, Moscow)
1 lecture:
"Masses of heavy baryons in the relativistic quark model"

8. **Gerasimov, Sergo B.** (JINR)
1 lecture:
"On the mass spectrum and electromagnetic decays of higher radial excited states of quarkonia"

9. **Grozin, Andrei G.** (INP,Novosibirsk)
2 lectures:
 - (1) *"Heavy-light quark current in HQET"*
 - (2) *"B-meson distribution amplitude"*

10. **Heitger, Jochen** (Muenster U.)
2 lectures:
"Introduction to non-perturbative HQET"

11. **Hoecker, Andreas**(LAL,Orsay)
3 lectures:
(1) Beauty Physics and CP Violation - the Experimental Program
(2) Measurement of $\sin(2\beta)$: Triumph of the Standard Model
(3) Towards the full Unitarity Triangle and Beyond

12. **Ivanov, Mikhail A.** (JINR)
1 lecture:
"Bottom and charm physics in relativistic constituent quark model"

13. **Körner, Juergen G.** (Mainz U.)
2 lectures:
"Angular Decay Distributions in Heavy Particle Decays"

14. **Likhoded, Anatoly K.** (IHEP)
1 lecture:
" B_c and Double Heavy Baryons: Spectroscopy, Decays and Productions"

15. **Lunghi, Enrico** (Zurich U.)
2 lectures:
"Introduction to SCET"

16. **Lyubovitskij, Valery E.** (Tuebingen U.)
1 lecture:
"Heavy baryons in quantum field approaches"

17. **Parkhomenko, Alexander Ya.** (Yaroslavl U.)
2 lectures:
"Two-Body Nonleptonic B-Meson Decays"

18. **Pivovarov, Alexei A.** (Moscow)
1 lecture *" $B^0\bar{B}^0$ mixing beyond factorization"*

19. **Roberts, Craig D.** (ANL)
3 lectures:
"Dyson-Schwinger Equations: From Gluons and Quarks to Reality"

20. **Saleev, Vladimir A.** (Samara U.)
1 lecture:
"Heavy quarkonium production at high energy colliders"
21. **Satz, Helmut** (Bielefeld U.)
2 lectures:
"Deconfinement and Quarkonium Dissociation"
22. **Stancu, Floarea** (Liege U.)
2 lectures:
(1) *"SU(4) classification of ordinary and exotic baryons"*
(2) *"Theoretical overview of charmed pentaquarks"*
23. **Zotov, Nikolai P.** (SINP, Moscow)
1 lecture:
"Small x physics and k_T -factorization phenomenology: from HERA to LHC"

Talks

1. **Alimujiang, Kadeer** (Mainz)
"Azimuthal correlation between the (p_l, p_{X_b}) and (p_l, P_t) plains in the rest frame decay of a polarized top quark: An $O(\alpha_s)$ effect"
2. **Aslam, Muhammad Jamil** (Islamabad)
"Ward Identities and Radiative Rare Semileptonic B-decay"
3. **Cherednikov, Igor** (Dubna)
"World-line techniques in heavy quarks effective theory"
4. **Fritzsch, Patrick** (Muenster)
"Non-perturbative renormalization of the static axial current in two flavour QCD"
5. **Gilani, Amjad Hussain Shah** (Islamabad)
" $B \rightarrow \rho$ form factors constrained by Ward Identities and V_{ub} "
6. **Guazzini, Damiano** (DESY Zeuthen)
"Lattice HQET"
7. **Kirilin, Grigori** (Novosibirsk)
"Loop corrections to the heavy-to-light B-meson form-factors."

8. **Kloker, Markus** (Tuebingen)
"Nucleon Form Factors in a covariant Faddeev Approach"
9. **Lansberg, Jean-Philippe** (Liege)
"Review of Quarkonium Production at High Energy Hadron Colliders"
10. **Lipatov, Artem V.** (Moscow)
"Higgs production at hadron colliders in the k_T -factorization approach"
11. **Rogal, Mikhail** (Mainz)
"Laurent series expansion of massive scalar one-loop integrals to $\mathcal{O}(\epsilon^2)$ "
12. **Rohrer, Johannes** (Aachen)
"Decay of B Mesons into Two Light Vector Mesons"
13. **Sidorova, Maria** (Moscow)
"Rare Meson Decays in theories beyond the Standard Model"
14. **Slad, Vitali L.** (Moscow)
"Production of Doubly and Triply Heavy Baryons in Electron-Positron and Gamma-Gamma Collisions"
15. **Vasin, Dmitriy V.** (Samara)
"On B_c meson hadroproduction at high energy"
16. **Virto, Javier** (Barcelona)
"Exploring $B_s \rightarrow KK$ Decays"
17. **Zhuridov, Dmitri** (Moscow)
"Neutrinoless double beta decay as probe for physics beyond the Standard Model"