

T. MEIER ET AL.
Resonant Light Power Buildup in ALPS, a “Light Shining Through Walls”-Experiment.

S. SCHULZ ET AL.
Optische Synchronisation Verteilter Lasersysteme bei FLASH.

S. WESCH, C. BEHRENS, H. DELSIM-HASHEMI, B. SCHMIDT, P. SCHMÜSER
Nachweis von Elektronenpaketsubstruktur im Mikrometerbereich mittels Spektroskopie kohärenter Übergangsstrahlung bei FLASH.

L.-G. WISSMANN ET AL.
Bau eines Ytterbium-Faserlasers für Elektrooptische Experimente zur Longitudinalen Elektronenstrahldiagnostik bei FLASH.

PAC09, Vancouver/CA (05/2009)

J. BÖDEWADT ET AL.
Status of the XUV Seeding Experiment at FLASH.

M. FELBER ET AL.
Long-Term Femtosecond Stable RF Signal Generation from Optical Pulse Trains.

S. SCHULZ ET AL.
All-Optical Synchronization of Distributed Laser Systems at FLASH.

Weitere Vorträge

M.K. BOCK ET AL.
New Beam Arrival Time Monitor Used in a Time-Of-Flight Injector Measurement.
FEL09, Liverpool/UK (08/2009)

M. FELBER, V. ARSOV, M. BOCK, P. GESSLER, K. HACKER, F. LÖHL, H. SCHLARB, B. SCHMIDT, S. SCHULZ, A. WINTER
Femtosecond Optical Synchronization System for FLASH.
CLIC09, Geneva/CH (10/2009)

B. SCHMIDT
Investigating Longitudinal Bunch Structure – Developments at FLASH.
PPA09, Geneva/CH (12/2009)

L. WISSMANN ET AL.
Electro-Optic Electron Bunch Diagnostic at FLASH using an Ytterbium Fiber Laser.
FEL09, Liverpool/UK (08/2009)

Dissertationen

F. LÖHL
Optical Synchronization of a Free-Electron Laser with Femtosecond Precision.
Univ. Hamburg (2009)
DESY-THESIS-2009-031, TESLA-FEL2009-08

Standort Zeuthen

Standort Zeuthen

Veröffentlichungen

S. ALEKHIN, S. KULAGIN, R. PETTI
Determination of strange sea distributions from νN deep inelastic scattering.
Phys. Lett. B 675 (2009) 433
<http://dx.doi.org/10.1016/j.physletb.2009.04.033>

G. ALEXANDER ET AL.
Undulator-based production of polarized positrons.
Nucl. Instrum. Methods A 610 (2009) 451 and SLAC-PUB-13605; DESY 09-061; IPPP/09/38; DCPT/09/76; arXiv:0905.3066
<http://dx.doi.org/10.1016/j.nima.2009.07.091>

ALPHA COLLABORATION, B. BLOSSIER, M. DELLA MORTE, G. VON HIPPEL, T. MENDES, R. SOMMER
On the generalized eigenvalue method for energies and matrix elements in lattice field theory.
JHEP 04 (2009) 094 and DESY 09-014; SFB/PPP-09-10; MKPH-T-09-01; LPT-Orsay/09-05; arXiv:0902.1265

ALPHA COLLABORATION, P. DIMOPOULOS, H. SIMMA, A. VLADIKAS
Quenched B_K -parameter from Osterwalder-Seiler tmQCD quarks and mass-splitting discretization effects.
JHEP 07 (2009) 007 and arXiv:0902.1074
<http://dx.doi.org/10.1088/1126-6708/2009/07/007>

Y. AOKI, S. BORSANYI, S. DÜRR, Z. FODOR, S.D. KATZ, S. KRIEG, K.K. SZABO
The QCD transition temperature: results with physical masses in the continuum limit II.
JHEP 06 (2009) 088 and WUB-09-01; ITP-Budapest 644; RBRC-782; arXiv:0903.4155
<http://dx.doi.org/10.1088/1126-6708/2009/06/088>

QCD transition temperature: approaching the continuum on the lattice.
Nucl. Phys. A 830 (2009) 805c

S. BADGER, J.M. CAMPBELL, R.K. ELLIS, C. WILLIAMS
Analytic results for the one-loop NMHV $H_q q g$ amplitude.
JHEP 12 (2009) 035 and DESY 09-180; FERMILAB-PUB-09-505-T; IPPP/09/86; arXiv:0910.4481
<http://dx.doi.org/10.1088/1126-6708/2009/12/035>

S. BADGER, N.E.J. BJERRUM-BOHR, P. VANHOVE
Simplicity in the structure of QED and gravity amplitudes.
JHEP 02 (2009) 038 and DESY 08-168; IHES-P-08-54; IPhT-T-08-156; arXiv:0811.3405
<http://dx.doi.org/10.1088/1126-6708/2009/02/038>

BAIKAL COLLABORATION
Search for High-Energy Neutrinos in the Baikal Neutrino Experiment.
Astro. Lett. 35 (2009) 651

<http://dx.doi.org/10.1134/S1063773709100016>

Status of the Baikal neutrino project.
Bull. Russ. Acad. Sci. Phys. 73 (2009) 643

- D. BESSON, R. NAHNHAUER, P.B. PRICE, D. TOSI,
J. VANDENBROUCKE, B. VOIGT
Simulation of a hybrid optical-radio-acoustic neutrino detector
at the South Pole.
Nucl. Instrum. Methods A 604 (2009) 179
<http://dx.doi.org/10.1016/j.nima.2009.03.047>
- I. BIERENBAUM, J. BLÜMLEIN, S. KLEIN
Mellin Moments of the $O(\alpha_s^3)$ Heavy Flavor Contributions
to unpolarized Deep-Inelastic Scattering at $Q^2 \gg m^2$ and
Anomalous Dimensions.
Nucl. Phys. B 820 (2009) 417 and DESY 09-057;
SFB-CPP-09-033; IFIC-09-16; arXiv:0904.3563
<http://dx.doi.org/10.1016/j.nuclphysb.2009.06.005>
- The Gluonic Operator Matrix Elements at $O(\alpha_s^2)$ for DIS Heavy
Flavor Production.
Phys. Lett. B 672 (2009) 401 and DESY 08-187;
SFB-CPP-08-107; IFIC-08-68; arXiv:0901.0669
<http://dx.doi.org/10.1016/j.physletb.2009.01.057>
- D. BLASCHKE, F. SANDIN, T. KLÄHN, J. BERDERMANN
Sequential deconfinement of quark flavors in neutron stars.
Phys. Rev. C 80 (2009) 065807 and arXiv:0807.0414
<http://dx.doi.org/10.1103/PhysRevC.80.065807>
- B. BLOSSIER ET AL.
Pseudoscalar decay constants of kaon and D-mesons from $N_f=2$
twisted mass Lattice QCD.
JHEP 07 (2009) 043 and DESY 09-044; FTUV-09-0112;
ICCUB-09-193; IFIC/09-02; LPT-Orsay/09-18; ROM2F/2009/05;
RM3-TH/09-7; SFB/CPP-09-32; UB-ECM-PF 09/08;
arXiv:0904.0954
<http://dx.doi.org/10.1088/1126-6708/2009/07/043>
- B. BLOSSIER, M. WAGNER, O. PENE
Lattice calculation of the Isgur-Wise functions $\tau_{1/2}$ and $\tau_{3/2}$
with dynamical quarks.
JHEP 6 (2009) 022 and DESY 09-033; arXiv:0903.2298
<http://dx.doi.org/10.1088/1126-6708/2009/06/022>
- J. BLÜMLEIN, M. KAUSERS, S. KLEIN, C. SCHNEIDER
Determining the closed forms of the $O(\alpha_s^3)$ anomalous dimensions
and Wilson coefficients from Mellin moments by means of
computer algebra.
Comput. Phys. Commun. 180 (2009) 2143 and DESY-09-002;
SFB-CPP-09-22; arXiv:0902.4091
<http://dx.doi.org/10.1016/j.cpc.2009.06.020>
- J. BLÜMLEIN, S. KLEIN, B. TÖDTLI
 $O(\alpha_s^2)$ and $O(\alpha_s^3)$ Heavy Flavor Contributions to Transversity
at $Q^2 \gg m^2$.
Phys. Rev. D 80 (2009) 094010 and DESY 09-060;
SFB-CPP-09-073; arXiv:0909.1547
<http://dx.doi.org/10.1103/PhysRevD.80.094010>
- J. BLÜMLEIN
Structural Relations of Harmonic Sums and Mellin Transforms up
to Weight $w = 5$.
Comput. Phys. Commun. 180 (2009) 2218 and DESY 07-042;
SFB-CPP-09-05; arXiv:0901.3106
<http://dx.doi.org/10.1016/j.cpc.2009.07.004>
- J. BLÜMLEIN, D. ROBASCHIK, B. GEYER
Target mass and finite t corrections to diffractive deeply inelastic
scattering.
Eur. Phys. J. C 61 (2009) 279 and DESY 08-091;
SFB-CPP-08-101; arXiv:0812.1899
<http://dx.doi.org/10.1140/epjc/s10052-009-0982-6>
- P. BOLZONI, S. MOCH, G. SOMOGYI, Z. TROCSANYI
Analytic integration of real-virtual counterterms in NNLO jet cross
sections II.
JHEP 08 (2009) 079 and DESY 09-075; SFB/CPP-09-42; ZU-TH
07/09; arXiv:0905.4390
<http://dx.doi.org/10.1088/1126-6708/2009/08/079>
- S. BOOGERT ET AL.
Polarimeters and energy spectrometers for the ILC Beam Delivery
System.
J. Instrum. 4 (2009) P10015 and DESY 09-028;
SLAC-PUB-13551; ILC-NOTE-2009-049; arXiv:0904.0122
<http://dx.doi.org/10.1088/1748-0221/4/10/P10015>
- V.M. BRAUN ET AL.
Electroproduction of the $N^*(1535)$ Resonance at Large
Momentum Transfer.
Phys. Rev. Lett. 103 (2009) 072001
<http://dx.doi.org/10.1103/PhysRevLett.103.072001>
- Nucleon distribution amplitudes and proton decay matrix elements
on the lattice.
Phys. Rev. D 79 (2009) 034504 and DESY 08-166; Edinburgh
2008/45; arXiv:0811.2712
<http://dx.doi.org/10.1103/PhysRevD.79.034504>
- A. CUCCHIERI, T. MENDES, E.M.S. SANTOS
Covariant Gauge on the Lattice: A New Implementation.
Phys. Rev. Lett. 103 (2009) 141602
<http://dx.doi.org/10.1103/PhysRevLett.103.141602>
- N. CUNDY ET AL.
Nonperturbative improvement of stout-smear three-flavor clover
fermions.
Phys. Rev. D 79 (2009) 094507
<http://dx.doi.org/10.1103/PhysRevD.79.094507>
- DELPHI COLLABORATION
Correlations between polarisation states of W particles in the
reaction $e^-e^+ \rightarrow W^-W^+$ at LEP2 energies 189-209 GeV.
Eur. Phys. J. C 63 (2009) 611
<http://dx.doi.org/10.1140/epjc/s10052-009-1123-y>
- Search for one large extra dimension with the DELPHI detector at
LEP.
Eur. Phys. J. C 60 (2009) 17
<http://dx.doi.org/10.1140/epjc/s10052-009-0874-9>
- T. DEYOUNG, ICECUBE COLLABORATION
Neutrino Astronomy with Icecube.
Mod. Phys. Lett. A 24 (2009) 1543 and arXiv:0906.4530
<http://dx.doi.org/10.1142/S0217732309031417>
- T. DIAKONIDIS, J. FLEISCHER, J. GLUZA, K. KAJDA,
T. RIEMANN, J.B. TAUSK
A Complete reduction of one-loop tensor 5 and 6-point integrals.
Phys. Rev. D 80 (2009) 036003 and DESY 08-174; BI-TP
2008/39; SFB/CPP-08-50; HEPTOOLS 08-046; arXiv:0812.2134
<http://dx.doi.org/10.1103/PhysRevD.80.036003> PACS:
11.80.Cr, 12.38.Bx

- H.K. DREINER, S. GRAB, D. KOSCHADE, M. KRÄMER,
B. O'LEARY, U. LANGENFELD
Rare meson decays into very light neutralinos.
Phys. Rev. D 80 (2009) 035018
<http://dx.doi.org/10.1103/PhysRevD.80.035018>
- H.K. DREINER, S. HEINEMEYER, O. KITTEL,
U. LANGENFELD, A.M. WEBER, G. WEIGLEIN
Mass bounds on a very light neutralino.
Eur. Phys. J. C 62 (2009) 547
<http://dx.doi.org/10.1140/epjc/s10052-009-1042-y>
- S. DÜRR ET AL.
Scaling study of dynamical smeared-link clover fermions.
Phys. Rev. D 79 (2009) 014501
<http://dx.doi.org/10.1103/PhysRevD.79.014501>
- EUROPEAN TWISTED MASS COLLABORATION,
C. ALEXANDROU, R. BARON, J. CARBONELL, V. DRACH,
P. GUICHON, K. JANSEN, T. KORZEC, O. PENE
Low-lying baryon spectrum with two dynamical twisted mass
fermions.
Phys. Rev. D 80 (2009) 114503 and DESY 09-160;
SFB/PPP-09-91; arXiv:0910.2419
<http://dx.doi.org/10.1103/PhysRevD.80.114503>
- FOPI COLLABORATION
Measurement of the In-Medium K^0 Inclusive Cross Section in π^-
– Induced reactions at 1.15 GeV/c.
Phys. Rev. Lett. 102 (2009) 182501
<http://dx.doi.org/10.1103/PhysRevLett.102.182501>
- P. GERHOLD, K. JANSEN
Lower Higgs boson mass bounds from a chirally invariant lattice
Higgs-Yukawa model with overlap fermions.
JHEP 07 (2009) 025 and HU-EP-08/64; DESY 08-191;
arXiv:0902.4135
<http://dx.doi.org/10.1088/1126-6708/2009/07/025>
- J. GLUZA, A. MITOV, S. MOCH, T. RIEMANN
The QCD form factor of heavy quarks at NNLO.
JHEP 07 (2009) 001 and DESY 09-064; HEPTOOLS 09-016;
SFB/PPP-09-35; YITP-SB-09-08; arXiv:0905.1137
<http://dx.doi.org/10.1088/1126-6708/2009/07/001>
- C. GRAH ET AL.
Polycrystalline CVD Diamonds for the Beam Calorimeter of the
ILC.
IEEE Trans. Nucl. Sci. 56 (2009) 462
<http://dx.doi.org/10.1109/NSSMIC.2006.355956>
- A. HART, G.M. VON HIPPEL, R.R. HORGAN, E.H. MÜLLER
Automated generation of lattice QCD Feynman rules.
Comput. Phys. Commun. 180 (2009) 2698 and Edinburgh
2009/05; DESY 09-052; arXiv:0904.0375
<http://dx.doi.org/10.1016/j.cpc.2009.04.021>
- R.R. HORGAN ET AL.
Moving nonrelativistic QCD for heavy-to-light form factors on the
lattice.
Phys. Rev. D 80 (2009) 074505 and DESY 09-053;
DAMTP-2008-113; Edinburgh 2008/07; arXiv:0906.0945
<http://dx.doi.org/10.1103/PhysRevD.80.074505>
- ICECUBE COLLABORATION
Search for point sources of high energy neutrinos with final data
from AMANDA-II.
Phys. Rev. D 79 (2009) 062001 and arXiv:0809.1646
<http://dx.doi.org/10.1103/PhysRevD.79.062001>
- The IceCube Data Acquisition System: Signalcapture,
Digitization, and Timestamping.
Nucl. Instrum. Methods A 601 (2009) 294 and arXiv:0810.4930
<http://dx.doi.org/10.1016/j.nima.2009.01.001>
- Limits on a muon flux from neutralino annihilations in the Sun
with the IceCube 22-string detector.
Phys. Rev. Lett. 102 (2009) 201302 and arXiv:0902.2460
<http://dx.doi.org/10.1103/PhysRevLett.102.201302>
- Determination of the Atmospheric Neutrino Flux and Searches for
New Physics with AMANDA-II.
Phys. Rev. D 79 (2009) 102005 and arXiv:0902.0675
<http://dx.doi.org/10.1103/PhysRevD.79.102005>
- First Neutrino Point-Source Results From the 22-String IceCube
Detector.
Astrophys. J. Lett. 701 (2009) L47-L51 and arXiv:0905.2253
<http://dx.doi.org/10.1088/0004-637X/701/1/L47>
- Search for high-energy muon neutrinos from the „naked-eye“ GRB
080319B with the IceCube neutrino telescope.
Astrophys. J. 701 (2009) 1721 and arXiv:0902.0131
<http://dx.doi.org/10.1088/0004-637X/701/2/1721>
- Extending the search for neutrino point sources with IceCube
above the horizon.
Phys. Rev. Lett. 103 (2009) 221102 and arXiv:0911.2338
<http://dx.doi.org/10.1103/PhysRevLett.103.221102>
- E.-M. ILGENFRITZ, K. JANSEN, M.P. LOMBARDO,
M. MÜLLER-PREUSSKER, M. PETSCHLIES, O. PHILIPSEN,
L. ZEIDLEWICZ
Phase structure of thermal lattice QCD with $N_f=2$ twisted mass
Wilson fermions.
Phys. Rev. D 80 (2009) 094502 and DESY-09-065; HU-EP-09/20;
MS-TP-09-06; SFB/PPP-09-41; arXiv:0905.3112
<http://dx.doi.org/10.1103/PhysRevD.80.094502>
- K. JANSEN, C. URBACH
tmLQCD: a program suite to simulate Wilson Twisted mass Lattice
QCD.
Comput. Phys. Commun. 180 (2009) 2717 and DESY 09-073;
HU-EP-09/23; SFB/PPP-09-43; arXiv:0905.3331
<http://dx.doi.org/10.1016/j.cpc.2009.05.016>
- K. JANSEN, C. MCNEILE, C. MICHAEL, C. URBACH
Meson masses and decay constants from unquenched lattice QCD.
Phys. Rev. D 80 (2009) 054510 and DESY 09-095, LTH 833;
SFB/PPP-09-56; HU-EP-09/28; arXiv:0906.4720
<http://dx.doi.org/10.1103/PhysRevD.80.054510>
- M. KRASILNIKOV
Beam Dynamics Optimization for the XFEL Photo Injector.
Int. J. Mod. Phys. A 24 (2009) 879
<http://dx.doi.org/10.1142/S0217751X0904436X>
- U. LANGENFELD, S. MOCH, P. UWER
Measuring the running top-quark mass.
Phys. Rev. D 80 (2009) 054009 and DESY 09-097; HU-EP-09/27;
SFB/PPP-09-55; arXiv:0906.5273
<http://dx.doi.org/10.1103/PhysRevD.80.054009>

- U. LANGENFELD, S. MOCH
Higher-order soft corrections to squark hadro-production.
Phys. Lett. B 675 (2009) 210 and DESY 09-004; SFB/CPP-09-01;
arXiv:0901.0802
<http://dx.doi.org/10.1016/j.physletb.2009.04.002>
- MAGIC COLLABORATION
Correlated X-ray and Very High Energy Emission in the
Gamma-Ray Binary LS I +61 303.
Astrophys. J. Lett. 706 (2009) L27-L32 and arXiv:0910.4381
<http://dx.doi.org/10.1088/0004-637X/706/1/L27>
- Simultaneous Multiwavelength observation of Mkn 501 in a low
state in 2006.
Astrophys. J. 705 (2009) 1624
<http://dx.doi.org/10.1088/0004-637X/705/2/1624>
- MAGIC Gamma-ray Telescope Observation of the Perseus Cluster
of Galaxies: implications for cosmic rays, dark matter, and
NGC1275.
Astrophys. J. 710 (2009) 634 and arXiv:0909.3267
<http://dx.doi.org/10.1088/0004-637X/710/1/634>
- MAGIC upper limits to the VHE gamma-ray flux of 3C 454.3 in
high emission state.
Astron. Astrophys. 498 (2009) 83
<http://dx.doi.org/10.1051/0004-6361/200811326>
- Discovery of a Very High Energy Gamma-Ray Signal from the 3C
66A/B Region.
Astrophys. J. Lett. 692 (2009) L29-L33
<http://dx.doi.org/10.1088/0004-637X/692/1/L29>
- Improving the performance of the single-dish Cherenkov telescope
MAGIC through the use of signal timing.
Astropart. Phys. 30 (2009) 293
<http://dx.doi.org/10.1016/j.astropartphys.2008.10.003>
- Upper Limits on the VHE Gamma-Ray Emission from the
Willman 1 Satellite Galaxy with the Magic Telescope.
Astrophys. J. 697 (2009) 1299
<http://dx.doi.org/10.1088/0004-637X/697/2/1299>
- Periodic Very High Energy gamma-Ray Emission from LS I +610
303 Observed with the MAGIC Telescope.
Astrophys. J. 693 (2009) 303
<http://dx.doi.org/10.1088/0004-637X/693/1/303>
- Discovery of very high energy gamma-rays from the Blazar S5
0716+714.
Astrophys. J. Lett. 704 (2009) L129-L133
<http://dx.doi.org/10.1088/0004-637X/704/2/L129>
- Suzaku and Multi-wavelength Observations of OJ 287 during the
Periodic Optical Outburst in 2007.
Pub. Astro. Soc. Jap. 61 (2009) 1011 and arXiv:0906.0234
- Simultaneous Multiwavelength Observations of Markarian 421
During Outburst.
Astrophys. J. 703 (2009) 169
<http://dx.doi.org/10.1088/0004-637X/703/1/169>
- S. MOCH, A. VOGT
On non-singlet physical evolution kernels and large-x coefficient
functions in perturbative QCD.
JHEP 11 (2009) 099 and DESY 09-133; SFB/CPP-09-80; LTH
840; arXiv:0909.2124
<http://dx.doi.org/10.1088/1126-6708/2009/11/099>
- Threshold Resummation of the Structure Function F_L .
JHEP 04 (2009) 081 and DESY 09-022; SFB/CPP-09-16; LTH
821; arXiv:0902.2342
<http://dx.doi.org/10.1088/1126-6708/2009/04/081>
- Higher-order threshold resummation for semi-inclusive e^+e^-
annihilation.
Phys. Lett. B 680 (2009) 239 and DESY 09-129; SFB/CPP-09-74;
LTH 839; arXiv:0908.2746
<http://dx.doi.org/10.1016/j.physletb.2009.09.001>
- MAGIC COLLABORATION, VERITAS COLLABORATION
The June 2008 Flare of Makkarian 421 from Optical to TeV
Energies.
Astrophys. J. Lett. 691 (2009) L13-L19
<http://dx.doi.org/10.1088/0004-637X/691/1/L13>
- MAGIC COLLABORATION, H.E.S.S. COLLABORATION,
VERITAS COLLABORATION
Radio Imaging of the Very-High-Energy gamma-Ray Emission
Region in the Central Engine of a Radio Galaxy.
Science 325 (2009) 444
<http://dx.doi.org/10.1126/science.1175406>
- Search for VHE gamma-Ray Emission from the Globular Cluster
M13 with the MAGIC Telescope.
Astrophys. J. 702 (2009) 266
<http://dx.doi.org/10.1088/0004-637X/702/1/266>
- QCDSF/UKQCD COLLABORATIONS ET AL.
Non-perturbative renormalization of three-quark operators.
Nucl. Phys. B 812 (2009) 205 and DESY 08-151; arXiv:0810.3762
<http://dx.doi.org/10.1016/j.nuclphysb.2008.12.015>
- T. Y. SAITO ET AL.
Very high QE HPDs with a GaAsP photocathode for the MAGIC
telescope project.
Nucl. Instrum. Methods A 610 (2009) 258
<http://dx.doi.org/10.1016/j.nima.2009.05.075>
- T. STROMAN, M. POHL, J. NIEMIEC
Kinetic Simulations of Turbulent Magnetic-Field Growth by
Streaming Cosmic Rays.
Astrophys. J. 706 (2009) 38
<http://dx.doi.org/10.1088/0004-637X/706/1/38>
- TUNKA COLLABORATION
Tunka-133: Status 2008 and development of methods for data
analysis.
Bull. Russ. Acad. Sci. Phys. 73 (2009) 588
- Measuring the shape of Cherenkov radiation pulses from extensive
air showers in the TUNKA experiment.
Instrum. Exp. Tech. 52 (2009) 166
<http://dx.doi.org/10.1134/S0020441209020043>
- G.M. VON HIPPEL
TaylUR 3, a multivariate arbitrary-order automatic differentiation
package for Fortran 95.
Comput. Phys. Commun. 181 (2009) 705 and DESY 09-156;
SFB/CPP-09-103; arXiv:0910.5111

Preprints und Interne Berichte

S. ACTIS ET AL.

Quest for precision in hadronic cross sections at low energy: Monte Carlo tools vs. experimental data. BIHEP-TH-2009-005; CERN-PH-TH/2009-201; DESY 09-092; Freiburg-PHENO-09/07; HEPTOOLS 09-018; IEKP-KA/2009-33; LNF-09/14(P); LPSC 09/157; LPT-ORSAY-09-95; LTH 851; MZ-TH/09-38; PITHA-09/14; PSI-PR-09-14; SFB/CPP-09-53; WUB/09-07; arXiv:0912.0749

S. ALEKHIN, J. BLÜMLEIN, S. KLEIN, S. MOCH

The 3-, 4-, and 5-flavor NNLO Parton from Deep-Inelastic-Scattering Data and at Hadron Colliders. DESY 09-102; SFB/CPP-09-072; arXiv:0908.2766

B. AURAND ET AL.

Beam Polarization at the ILC: the Physics Impact and the Accelerator Solutions. DESY 09-042; arXiv:0903.2959

S. BADGER, E.W. NIGEL GLOVER, P. MASTROLIA,

C. WILLIAMS

One-loop Higgs plus four gluon amplitudes: Full analytic results. IPPP/09/58; CERN-PH-TH/2009-163; DESY 09-138; arXiv:0909.4475

R. BARON ET AL.

Light Meson Physics from Maximally Twisted Mass Lattice QCD. HISKP-TH-09-37; DESY 09-187; SFB/CPP-09-115; MS-TP-09-27; ROM2F/2009/24; IFT-UAM/CSIC-09-58; arXiv:0911.5061

G. BECKETT, B. JOO, C.M. MAYNARD, D. PLEITER,

O. TATEBE, T. YOSHIE

Building the International Lattice Data Grid. arXiv:0910.1692

J. BLÜMLEIN, D.J. BROADHURST, J.A.M. VERMASEREN

The Multiple Zeta Value Data Mine. DESY 09-003; NIKHEF 09-016; SFB/CPP-09-65; arXiv:0907.2557

F. BRUCKMANN, F. GRUBER, K. JANSEN, M. MARINKOVIC,

C. URBACH, M. WAGNER

Comparing topological charge definitions using topology fixing actions. DESY 09-066; HU-EP-09/17; SFB/CPP-09-37; arXiv:0905.2849

T. DIAKONIDIS, J. FLEISCHER, T. RIEMANN, J.B. TAUSK

A recursive reduction of tensor Feynman integrals. DESY 09-101; BI-TP 2009/15; HEPTOOLS 09-020; SFB/CPP-09-63; arXiv:0907.2115

T. DIAKONIDIS

Reduction Method for One-loop Tensor 5- and 6-point Integrals Revisited. DESY 09-016; SFB-CPP-09-11; HEPTOOLS-09-006

V. DRACH ET AL.

Partially quenched study of strange baryon with $N_f = 2$ twisted mass fermions. DESY 09-034; LPT-Orsay 09-32; arXiv:0905.2894

EUROPEAN TWISTED MASS COLLABORATION ET AL.

A proposal for B-physics on current lattices. DESY 09-112; LPT-Orsay/09-69; LTH835; HU-EP-09/42; RM3-TH/09-16; ROM2F/2009/13; arXiv:0909.3187

X. FENG, K. JANSEN, D.B. RENNER

The $\pi^+ \pi^+$ scattering length from maximally twisted mass lattice QCD. DESY 09-141; SFB/CPP-09-82; MS-TP-09-17; arXiv:0909.3255v2

Scattering from finite size methods in lattice QCD.

DESY 09-171; SFB/CPP-09-95; MS-TP-09-21; arXiv:0910.4871

J. GLUZA, K. KAJDA, T. RIEMANN, V. YUNDIN

New results for loop integrals: AMBRE, CSectors, hexagon. DESY 09-012; SFB/CPP-09-12; HEPTOOLS 08-230; arXiv:0902.4830

K. HASEGAWA, S. MOCH, P. UWER

AutoDipole – Automated generation of dipole subtraction terms -. DESY 09-194; HU-EP-09/55; SFB/CPP-09-107; arXiv:0911.4371

ICECUBE COLLABORATION

Limits on a muon flux from Kaluza-Klein dark matter annihilations in the Sun from the IceCube 22-string detector. arXiv:0910.4480

K. JANSEN, C. MCNEILE, C. MICHAEL, C. URBACH, ETM

COLLABORATION

A lattice QCD calculation of the transverse decay constant of the $b_1(1235)$ meson. DESY 09-182; arXiv:0910.5883

L3 COLLABORATION

Study of hadronic event shape in flavour tagged events in e^+e^- annihilation at $\sqrt{s} = 197$ GeV. arXiv:0907.2658

W. LOHMANN

R&D for Very Forward Calorimeters at the ILC Detector. arXiv:0902.3399

MAGIC COLLABORATION

MAGIC TeV Gamma-Ray Observations of Markarian 421 during Multiwavelength Campaigns in 2006. MPP-2009-224; arXiv:1001.1291

Simultaneous multi-frequency observation of the unknown redshift blazar PG 1553+113 in March-April 2008.

arXiv:0911.1088

Discovery of Very High Energy gamma-rays from the blazar S5 0716+714.

arXiv:0907.2386

S. RIEMANN, A. SCHÄLICHE, A. USHAKOV

Frequency of Positron Helicity Reversal.

DESY 09-038; arXiv:0903.2366

G. SOAR, A. VOGT, S. MOCH, J. VERMASEREN

On Higgs-exchange DIS, physical evolution kernels and fourth-order splitting functions at large x .

LTH 857; DESY 09-211; SFB/CPP-09-119; NIKHEF 09-031; arXiv:0912.0369

R. SOMMER

New perspectives for heavy flavour physics from the lattice.

DESY 09-088; SFB/CPP-09-48; arXiv:0906.3790

G. SOMOGYI, R.E. SMITH

Cosmological perturbation theory for baryons and dark matter I: one-loop corrections in the RPT framework.

DESY 09-188; arXiv:0910.5220

F. TEKIN, R. SOMMER, U. WOLFF
 Symanzik improvement of lattice QCD with four flavors of Wilson quarks.
 DESY 09-203; HU-EP-09/59; SFB/PPP-09-114; arXiv:0911.4043

Veröffentlichte Vorträge

Proc. of 31st International Cosmic Ray Conference, Lodz/PL (07/2009)

University of Lodz (2009)

AMANDA COLLABORATION, ICECUBE COLLABORATION
 Search for the Kaluza-Klein Dark Matter with the AMANDA/IceCube Detectors.
 University of Lodz (2009) 3969

IceCube/AMANDA combined analyses for the search of neutrino sources at low energies.
 University of Lodz (2009) 1289

BAIKAL COLLABORATION
 Status of the BAIKAL neutrino experiment.
 University of Lodz (2009) 1091

Search for Neutrinos from Dark Matter Annihilation in the Sun with the Baikal Neutrino Experiment.
 University of Lodz (2009) 1165

Search for neutrinos from Gamma-Ray Bursts with the Baikal neutrino telescope NT200.
 University of Lodz (2009) 1404

Search for a diffuse flux of high-energy neutrinos with the Baikal neutrino telescope NT200.
 University of Lodz (2009) 1093

Acoustic search for high-energy neutrinos in Lake Baikal: status and perspectives.
 University of Lodz (2009) 0927

R. FRANKE, E. BERNARDINI, ICECUBE COLLABORATION
 Neutrino triggered high-energy gamma-ray follow-up with IceCube.
 University of Lodz (2009) 0987

ICECUBE COLLABORATION
 Fundamental Neutrino Measurements with IceCube DeepCore.
 University of Lodz (2009) 1336

Search for neutrino flares from point sources with IceCube.
 University of Lodz (2009) 4209

Searches for WIMP Dark Matter from the Sun with AMANDA.
 University of Lodz (2009) 1615

AMANDA 7-Year Multipole Analysis.
 University of Lodz (2009) 3942

Large Scale Cosmic Rays Anisotropy with IceCube.
 University of Lodz (2009) 0498

Physics Capabilities of the IceCube DeepCore Detector.
 University of Lodz (2009) 2263

Sensor development and calibration for acoustic neutrino detection in ice.
 University of Lodz (2009) 3561

Search for High Energetic Neutrinos from Supernova Explosions with AMANDA.
 University of Lodz (2009) 4621

Supernova Search with the AMANDA / IceCube Detectors.
 University of Lodz (2009) 0441

Acoustic detection of high energy neutrinos in ice: Status and results from the South Pole Acoustic Test Setup.
 University of Lodz (2009) 3251

Study of High pT Muons in IceCube.
 University of Lodz (2009) 0055

First search for extraterrestrial neutrino-induced cascades with IceCube.
 University of Lodz (2009) 0989

Direct Measurement of the Atmospheric Muon Energy Spectrum with IceCube.
 University of Lodz (2009) 0679

A Search for Atmospheric Neutrino-Induced Cascades with IceCube.
 University of Lodz (2009) 0215

Small air showers in IceTop.
 University of Lodz (2009) 0896

Reconstruction of IceCube coincident events and study of composition-sensitive observables using both the surface and deep detector.
 University of Lodz (2009) 4668

Atmospheric Variations as observed by IceCube.
 University of Lodz (2009) 0776

All-Sky Point-Source Search with 40 Strings of IceCube.
 University of Lodz (2009) 0653

IceCube Time-Dependent Point Source Analysis Using Multiwavelength Information.
 University of Lodz (2009) 0812

Moon Shadow Observation by IceCube.
 University of Lodz (2009) 1173

Atmospheric Neutrino Oscillation Measurements with IceCube.
 University of Lodz (2009) 0785

Search for Diffuse High Energy Neutrinos with IceCube.
 University of Lodz (2009) 1400

Improved Reconstruction of Cascade-like Events in IceCube.
 University of Lodz (2009) 0708

Search for neutrinos from GRBs with IceCube.
 University of Lodz (2009) 0515

Search for GRB neutrinos via a (stacked) time profile analysis.
 University of Lodz (2009) 0393

Results and Prospects of Indirect Searches for Dark Matter with IceCube.
 University of Lodz (2009) 0505

The extremely high energy neutrino search with IceCube.
 University of Lodz (2009) 0861

Study of very bright cosmic-ray induced muon bundle signatures measured by the IceCube detector.
 University of Lodz (2009) 0913

Selection of High Energy Tau Neutrinos in IceCube.
University of Lodz (2009) 1372

Search for quantum gravity with IceCube and high energy atmospheric neutrinos.
University of Lodz (2009) 0484

A First All-Particle Cosmic Ray Energy Spectrum from IceTop.
University of Lodz (2009) 0970

Cosmic Ray Composition using SPASE-2 and AMANDA-II.
University of Lodz (2009) 1429

Implementation of an active veto against atmospheric muons in IceCube DeepCore.
University of Lodz (2009) 1237

ICECUBE COLLABORATION, ROTSE COLLABORATION
Optical follow-up of high-energy neutrinos detected by IceCube.
University of Lodz (2009) 0631

MAGIC COLLABORATION, VERITAS COLLABORATION
Multiwavelength Observations of Mrk 501 in 2008.
University of Lodz (2009) 1098

MAGIC COLLABORATION
Monitoring of Bright Blazars with MAGIC.
University of Lodz (2009) 0893

TUNKA COLLABORATION
The Tunka-133 EAS Cherenkov array – status, first results and plans.
University of Lodz (2009) 1069

Proc. of DIS 2009, Madrid/ES (04/2009)
Sciencewise Publishing (2009)

I. BIERENBAUM, J. BLÜMLEIN, S. KLEIN
Moments of the 3-loop corrections to the heavy flavor contribution to $F_2(x, Q^2)$ for $Q^2 \gg m^2$.
Sciencewise Publishing (2009) and DESY 09-103;
SFB/CPP-09-66; IFIC/09-31; arXiv:0907.2615

U. LANGENFELD, S. MOCH, P. UWER
New results for $t\bar{t}$ production at hadron colliders.
Sciencewise Publishing (2009) 131 and DESY 09-104;
SFB/CPP-09-61; HU-EP-09/31; arXiv:0907.2527

Proc. of High-Energy Gamma-rays and Neutrinos from Extra-Galactic Sources, Heidelberg/DE (01/2009)
Int. J. Mod. Phys. D 18 (2009)

L. DEMIRÖRS, ICECUBE COLLABORATION
Searches for a Diffuse Flux of Extraterrestrial Muon Neutrinos with the Icecube Observatory.
Int. J. Mod. Phys. D 18 (2009) 1603
<http://dx.doi.org/10.1142/S0218271809015424>

A. KAPPES, ICECUBE COLLABORATION
Gamma-Ray Burst Detection with Icecube.
Int. J. Mod. Phys. D 18 (2009) 1561
<http://dx.doi.org/10.1142/S0218271809015473>

R. LAUER, ICECUBE COLLABORATION
Extended Search for Point Sources of Neutrinos Below and Above the Horizon: Covering Energies from TeV to EeV with Icecube.
Int. J. Mod. Phys. D 18 (2009) 1587 and arXiv:0903.5434
<http://dx.doi.org/10.1142/S0218271809015485>

Proc. of LAT2009, Beijing/CN (07/2009)
PoS, Proceedings of Science (2009)

R. BARON ET AL.
First results of ETMC simulations with $N_f=2+1+1$ maximally twisted mass fermions.
PoS, Proceedings of Science (2009) 104 and DESY 09-175;
HU-EP-09/50; MS-TP-09-22; SFB/CPP-09-98; arXiv:0911.5244

W. BIETENHOLZ ET AL.
A Non-Perturbative Operator Product Expansion.
PoS, Proceedings of Science (2009) and DESY 09-166; Edinburgh 2009/14; LTH 846; arXiv:0910.2437

Quark structure from the lattice Operator Product Expansion.
PoS, Proceedings of Science (2009) 139 and DESY 09-208;
Liverpool LTH 855; Edinburgh 2009/21; arXiv:0911.4892

B. BLOSSIER, M. DELLA MORTE, N. GARRON, G. VON HIPPEL, T. MENDES, H. SIMMA, R. SOMMER
Spectroscopy and decay constants from nonperturbative HQET at order $1/m$.
PoS, Proceedings of Science (2009) 106 and IFT-UAM/CSIC-09-49; DESY 09-173; SFB/CPP-09-97; MKPH-T-09-26; arXiv:0911.1568

P. DIMOPOULOS, R. FREZZOTTI, G. HERDOIZA, K. JANSEN, C. MICHAEL, C. URBACH, ETM COLLABORATION
Scaling and ChPT description of pion observables from $N_f=2$ twisted mass QCD.
PoS, Proceedings of Science (2009) 117 and DESY 09-226; arXiv:0912.5198

P. DÜBEN, D. HOMEIER, K. JANSEN, D. MESTERHAZY, G. MÜNSTER
Monte Carlo approach to turbulence.
PoS, Proceedings of Science (2009) 061 and DESY 09-174; MS-TP-09-23; arXiv:0911.0592

ETM COLLABORATION ET AL.
 f_B and f_{B_s} with maximally twisted Wilson fermions.
PoS, Proceedings of Science (2009) and DESY 09-198;
HU-EP-09/56; IFT-UAM/CSIC-09-55; LTH853;
ROME1/1467/2009; RM3-TH/09-20; SFB/CPP-09-109;
arXiv:0911.3757

P. GERHOLD, K. JANSEN
Upper and lower Higgs boson mass bounds from a lattice Higgs-Yukawa model with dynamical overlap fermions.
PoS, Proceedings of Science (2009) 054 and HU-EP-09/52; DESY 09-179; arXiv:0912.0407

M. GÖCKELER, PH. HÄGLER, R. HORSLEY, Y. NAKAMURA, D. PLEITER, P.E.L. RAKOW, A. SCHÄFER, G. SCHIERHOLZ, H. STÜBEN, J.M. ZANOTTI
Lattice Investigations of Nucleon Structure at Light Quark Masses.
PoS, Proceedings of Science (2009) and DESY 09-196; Edinburgh 2009/20; LTH 853; TUM-T39-11-11; arXiv:0912.0167

J. GONZALEZ LOPEZ, K. JANSEN, D.B. RENNER, A. SHINDLER
Chirally rotated Schrödinger functional: non-perturbative tuning in the quenched approximation.
PoS, Proceedings of Science (2009) 199 and HU-EP-09/43; SFB/CPP-09-85; DESY 09-146; LTH 841; arXiv:0910.3760

R. HORSLEY ET AL.
Results from 2+1 SLiNC fermions.
PoS, Proceedings of Science (2009) 102 and DESY 09-172; Edinburgh 2009/15; Liverpool LTH 848; arXiv:0910.2963

LHPC COLLABORATION ET AL.

Nucleon form factors from high statistics mixed-action calculations with 2+1 flavors.

PoS, Proceedings of Science (2009) 142 and arXiv:0910.3816

E.H. MÜLLER, C.T.H. DAVIES, G. VON HIPPEL, A. HART, R. HORGAN, I. KENDALL, A. LEE, S. MEINEL, C. MONAHAN, M. WINGATE

Radiative corrections to the m(oving)NRQCD action and heavy-light operators.

PoS, Proceedings of Science (2009) 241 and arXiv:0909.5126

M. MÜLLER-PREUSSKER, E.-M. ILGENFRITZ, K. JANSEN, M.P. LOMBARDO, O. PHILIPSEN, L. ZEIDLEWICZ, M. KIRCHNER, M. PETSCHLIES, D. SCHULZE, C. URBACH
On the phase structure of lattice QCD with twisted-mass Wilson fermions at non-zero temperature.

PoS, Proceedings of Science (2009) 266 and DESY 09-199; HU-EP-09/58; MS-TP-09-26; SFB/CPP-09-112; arXiv:0912.0919

D. PLEITER, T. MAURER

QPACE – a QCD parallel computer based on cell processors.

PoS, Proceedings of Science (2009) 001 and arXiv:0911.2174

S. SCHAEFER, R. SOMMER, F. VIROTTA

Investigating the critical slowing down of QCD simulations.

PoS, Proceedings of Science (2009) 032 and DESY 09-152; HU-EP-09/48; SFB/CPP-09-93; arXiv:0910.1465

Proc. of PAC09, Vancouver/CA (05/2009)

TRIUMF (2009)

S. HESSELBACH, I.R. BAILEY, J.L. FERNANDEZ-HERNANDO, L.J. JENNER, G.A. MOORTGAT-PICK, S. RIEMANN, J.H. ROCHFORD, A. SCHÄLICHE, A. USHAKOV, L. ZANG
Positron Source Target Survivability Studies.
TRIUMF (2009) MO6RFP061

M. KRASILNIKOV ET AL.

Recent Electron Beam Measurements at PITZ with A New Photocathode Laser System.

S. LEDERER, S. SCHREIBER, R. OVSYANNIKOV, M. SPERLING, A. VOLLMER, P. MICHELATO, L. MONACO, C. PAGANI, D. SERTORE, F. STEPHAN
XPS Investigations on Cs₂Te Photocathodes of FLASH and PITZ.
JACoW (2009) MO6RFP054

S. LEDERER, S. SCHREIBER, M. HAENEL, F. STEPHAN, P. MICHELATO, L. MONACO, C. PAGANI, D. SERTORE, J.H. HAN

Investigations on The Increased Life Time of Photocathodes at FLASH and PITZ.

JACoW (2009) MO6RFP055

Proc. of USTRON'09, Ustron/PL (09/2009)

Acta Phys. Pol. B 40 (2009)

J. BLÜMLEIN, S. KLEIN, B. TÖDTLI

2 and 3-Loop Heavy Flavor Corrections to Transversity.

Acta Phys. Pol. B 40 (2009) 3135 and DESY 09-125; SFB-CPP-09-77; arXiv:0909.1487

F. JEGERLEHNER

Progress in the Prediction of g-2 of the Muon.

Acta Phys. Pol. B 40 (2009) 3097

K. KAJDA, T. SABONIS, V. YUNDIN

QED Pentagon Contributions to $e^+e^- \rightarrow \mu^+\mu^-\gamma$.

Acta Phys. Pol. B 40 (2009) 3127

S. MOCH

The QCD form factor of massive quarks and applications.

Acta Phys. Pol. B 40 (2009) 2923 and DESY 09-195, SFB/CPP-09-108; arXiv:0911.1603

S. RIEMANN

Status of Linear Collider Projects.

Acta Phys. Pol. B 40 (2009) 2977

Proc. of VLVnT08, Toulon/FR (02/2008)

Nucl. Instrum. Methods A 602 (2009)

BAIKAL COLLABORATION

The BAIKAL neutrino experiment: Physics results and perspectives.

Nucl. Instrum. Methods A 602 (2009) 14

The prototype string for the km³ scale Baikal neutrino telescope.

Nucl. Instrum. Methods A 602 (2009) 227

K.G. KEBKAL, R. BANNASCH, O.G. KEBKAL, A.I. PANFILOV, R. WISCHNEWSKI

3D acoustic imaging applied to the Baikal neutrino telescope.

Nucl. Instrum. Methods A 602 (2009) 177

Weitere veröffentlichte Vorträge

Z.J. AJALTOUNI ET AL.

Heavy flavour production at the LHC: Theoretical Aspects.

Proc. of HERA and the LHC. Workshop on the implications of HERA for LHC physics, Hamburg, Geneva/Germany, Switzerland (01/2006)

DESY (2009) 331

BAIKAL COLLABORATION

The Baikal Neutrino Telescope and KM3 Perspective.

Proc. of 13th International Workshop on Neutrino Telescopes, Venice/IT (03/2009)

Papergraf (2009) 195

Baikal neutrino telescope: An underwater laboratory for astroparticle physics and environmental studies.

Proc. of 10th International Conference on Instrumentation for Colliding Beam Physics, Novosibirsk/RU (02/2008)

Nucl. Instrum. Methods A 598 (2009) 282

<http://dx.doi.org/10.1016/j.nima.2008.08.006>

Detectors for X-ray Coherent Diffractive Imaging.

Proc. of ARENA 2008, Rom/IT (06/2008)

Nucl. Instrum. Methods A 604 (2009) 130

<http://dx.doi.org/10.1016/j.nima.2009.03.065>

J. BLÜMLEIN, M. KAUSERS, S. KLEIN, C. SCHNEIDER

From Moments to Functions in Quantum Chromodynamics.

Proc. of ACAT08, Erice/IT (11/2008)

PoS, Proceedings of Science (2008) 106 and DESY 09-011;

SFB-CPP-09/17; arXiv:0902.4095

K. CICHY, G. HERDOIZA, K. JANSEN
Continuum-limit scaling of overlap fermions as valence quarks.
Proc. of 49. Cracow School of Theoretical Physics –
Non-Perturbative Gravity and Quantum Chromodynamics,
Zakopane/PL (05/2009)
Acta Phys. Pol. B – Proc. Suppl. 2 (2009) 497 and DESY 09-159;
SFB/CPP-09-90; arXiv:0910.0816

D. COWEN, ICECUBE COLLABORATION
The Physics Potential of IceCube's DeepCore Sub-Detector.
Proc. of 13th International Workshop on Neutrino Telescopes,
Venice/IT (03/2009)
Papergraf (2009) 253

T. DEYOUNG, ICECUBE COLLABORATION
Recent results from IceCube and AMANDA.
Proc. of Meeting of the Division of Particles and Fields of the
American Physical Society, Detroit/USA (07/2009)
SLAC (2009) and arXiv:0910.3644

P. DIMOPOULOS, R. FREZZOTTI, G. HERDOIZA, K. JANSEN,
C. MICHAEL, C. URBACH, ETM COLLABORATION
 χ PT description of the pion mass and decay constant from $N_f = 2$
twisted mass QCD.
Proc. of EFT09, Valencia/ES (02/2009)
PoS, Proceedings of Science (2009) 039 and DESY 09-063,
SFB-CPP-09-38

G. HERDOIZA, P. DIMOPOULOS, R. FREZZOTTI, K. JANSEN,
C. MICHAEL, C. URBACH
Results from ETMC in the light-quark sector.
Proc. of CD09, Bern/CH (07/2009)
PoS, Proceedings of Science (2009) 006

U. LANGENFELD
Squark pair production at the LHC.
Proc. of SUSY09, Boston/USA (06/2008)
AIP (2009) 331 and DESY 09-122; SFB/CPP-09-70;
arXiv:0908.3567

D. RENNER, X. FENG
Hadronic contribution to $g-2$ from twisted mass fermions.
Proc. of LATTICE 2008, Williamsburg/USA (07/2008)
PoS, Proceedings of Science (2008) 129 and DESY 08-152;
arXiv:0902.2796

S. RIMJAEM ET AL.
Recent Emittance Measurements Results for the Upgraded PITZ
Facility.
Proc. of FEL09, Liverpool/UK (08/2009)
JACoW (2009) 251

S. RIMJAEM, J. BÄHR, Y. IVANISENKO, M. KRASILNIKOV,
J. RÖNSCH, F. STEPHAN, M. JORÉ, A. VARIOLA
Physics and Technical Design for the Second High Energy
Dispersive Section at PITZ.
Proc. of DIPAC09, Basel/CH (05/2009)
Paul Scherrer Insitut (2009) 107

J. RÖNSCH ET AL.
First Measurements of the Longitudinal Phase Space Distribution
Using the New High Energy Dispersive Section at PITZ.
Proc. of DIPAC09, Basel/CH (05/2009)
Paul Scherrer Insitut (2009) 360

S. SCHUWALOW
Calorimetry at ILC detectors.
Proc. of 10th International Conference on Instrumentation for
Colliding Beam Physics, Novosibirsk/RU (02/2008)
Nucl. Instrum. Methods A 598 (2009) 258
<http://dx.doi.org/10.1016/j.nima.2008.08.122>

TUNKA COLLABORATION
The Cosmic Ray Mass Composition in the Energy Range
 $10^{15} - 10^{18}$ eV measured with the Tunka Array: Results and
Perspectives.
Proc. of CRIS 2008, Malfa/IT (09/2009)
Nucl. Phys. B, Proc. Suppl. 190 (2009) 247 and arXiv:0902.3156

Vorträge

DPG 2009, München/DE (03/2009)

J.L. BAZO ALBA, ICECUBE COLLABORATION
Neutrino point source with IceCube 22-strings.

Time Cluster Search for Neutrino Flares with IceCube 22-strings.

M.L. BENABDERRAHMANE, ICECUBE COLLABORATION
Search for sub-relativistic particles with the IceCube detector.

J. BERDERMANN
Simulation hoch-energetischer Neutrinoereignisse für
Neutrinooteleskope.

R. FRANKE, ICECUBE COLLABORATION
Neutrino-getriggerte Folgebeobachtungen mit
Luftschauer-Cherenkov-Teleskopen.

G. HERDOIZA
Hadron spectrum from twisted mass lattice QCD.

F. KISLAT
Rekonstruktion des Energiespektrums kosmischer Strahlung mit
IceTop.

R. LAUER, E. BERNARDINI, ICECUBE COLLABORATION
Suche nach Neutrino Punktquellen bei Energien im Bereich von
TeV bis EeV mit IceCube.

E. MIDDELL, ICECUBE COLLABORATION
Rekonstruktion kaskadenartiger Ereignisse in IceCube.

M. PAZ ARRIBAS, CTA COLLABORATION
Trigger studies for CTA.

H. PROKOPH, CTA COLLABORATION
Eine Studie zur Untergrundunterdrückung bei stereoskopischen
Cherenkov-Systemen durch Ausnutzung von
Pixel-Timing-Information.

K. SATALECKA, MAGIC COLLABORATION
AGN monitoring with the MAGIC telescope in the 2007/2008
Season.

The June 2008 flare of Markarian 421 from optical to TeV
energies, as observed by AGILE, RXTE, Swift, GASP-WEBT,
MAGIC and VERITAS.

D. TOSI
Status of activities for acoustic neutrino detection at the South
Pole.

ICALEPCS 2009, Kobe/JP (10/2009)

P. DUVAL, M. LOMPERSKI, P.K. BARTKIEWICZ, S.W. HERB,
S. WEISSE
TINE release 4.1: Responding to the user's needs.

P. DUVAL, I. KRIZNAR, J. BOBNAR, T. KUSTERLE, S. WEISSE
New ACOP beans and TINE general purpose diagnostic
applications.

P. DUVAL, A. SHAPOVALOV, D. MELKUMYAN, S. WEISSE
TINE Video System: Proceedings on Redesign.

ST. WEISSE, D. MELKUMYAN, PH. DUVAL
TINE Video System: A Modular, Well-Defined, Component-Based
and Interoperable TV System.

PAC09, Vancouver/CA (05/2009)

M. KRASILNIKOV ET AL.
Recent Electron Beam Measurements at PITZ with a New
Photocathode Laser System.

S. LEDERER, S. SCHREIBER, M. HAENEL, F. STEPHAN,
P. MICHELATO, L. MONACO, C. PAGANI, D. SERTORE,
J.H. HAN

Investigations on the Increased Life Time of Photocathodes at
FLASH and PITZ.

S. LEDERER, S. SCHREIBER, R. OVSYANNIKOV, M. SPERLING,
A. VOLLMER, P. MICHELATO, L. MONACO, C. PAGANI,
D. SERTORE, F. STEPHAN
XPS Investigations on Cs₂Te Photocathodes of FLASH and PITZ.

RADCOR 2009, Ascona/CH (10/2009)

S. BADGER
On-Shell Methods for One-Loop Amplitudes.

I. BIERENBAUM, J. BLÜMLEIN, S. KLEIN
Heavy Flavor Contributions to DIS Structure Functions at $O(\alpha_s^3)$.

T. RIEMANN
A recursive reduction of tensor Feynman integrals.

RECAPP09, Allahabad/IN (02/2009)

J. BLÜMLEIN
Mathematical Structures in Higher Order Calculations.

Heavy Flavor Contributions to Deeply Inelastic Scattering.

QCD Evolution of Unpolarized Parton Distributions.

Weitere Vorträge

S. ALEKHIN, J. BLÜMLEIN, S. KLEIN, S. MOCH
Variable-Flavor-Number Scheme in Analysis of Heavy-Quark
Electro-Production Data.
DIS 2009, Madrid/ES (04/2009)

G. ASOVA, S. KHODYACHYKH, M. KRASILNIKOV, F. STEPHAN,
I. TSAKOV
Tomographic Reconstruction of a Beam Phase Space From
Limited Projection Data.
ICAP2009, San Francisco/USA (08/2009)

S. BADGER
Generalised Unitarity for One-Loop Amplitudes.
CALC 2009, Dubna/RU (07/2009)

BAIKAL COLLABORATION
Physics results and perspectives of the Baikal neutrino project.
44th Rencontres De Moriond: Very High Energy Phenomena In
The Universe, La Thuile/IT (02/2009)

The Baikal Neutrino Telescope – Results and Plans.
RICAP'09, Rome/IT (05/2009)

J. BERDERMANN
IceCube – Kosmische Neutrinos in der Antarktis.
MNU 7. Herbstkongress, Berlin/DE (09/2009)

D. BLASCHKE, J. BERDERMANN
Neutrinos in dense quark matter and cooling of compact stars.
International School of Nuclear Physics on NNeutrinos in
Cosmology, in Astro-, Particle- and Nuclear Physics, Erice/IT
(09/2009)

J. BLÜMLEIN
Large x higher twist contributions to DIS, polarized twist-2 and
twist-3 integral relations.
Higher twist workshop, Madison/USA (06/2009)

J. BLÜMLEIN
 $O(\alpha_s^3)$ Heavy Flavor Wilson Coefficients for Deeply Inelastic
Scattering.

HEPTOOLS, Lisboa/PT (03/2009)

EUROPEAN TWISTED MASS COLLABORATION,
C. ALEXANDROU, T. KORZEC, G. KOUTSOU, R. BARON,
P. GUICHON, M. BRINET, J. CARBONELL, P.-A. HARRAUD,
K. JANSEN

Nucleon form factors with $N_f=2$ dynamical twisted mass fermions.
LAT2009, Beijing/CN (07/2009)

M. HÄNEL, G. KLEMZ, M. KRASILNIKOV, J. RÖNSCH,
F. STEPHAN, I. WILL
Electron Bunch Momentum Distribution Modulations at PITZ.
FEL09, Liverpool/UK (08/2009)

A. HAUPT, Y. KEMP
The NAF: National Analysis Facility at DESY.
CHEP2009, Prague/CZ (03/2009)

K. JANSEN, A. SHINDLER
The epsilon regime of chiral perturbation theory with Wilson-type
fermions.
LAT2009, Beijing/CN (07/2009)

Results from twisted mass fermions with 2+1+1 flavours.
CCS Workshop on Perspectives on Light Quark Simulations
through Machine, Algorithm and ILDG, Tsukuba/JP (03/2009)

Results from maximally twisted mass fermions.
QCD Bound States: Methods and Properties, Argonne/USA
(06/2009)

E. MIDDELL
Cascade and NuTau reconstruction in IceCube.
MANTS 2009, Berlin/DE (09/2009)

S. MOCH
The QCD form factor of massive quarks and applications.
USTRON'09, Ustron/PL (09/2009)

K. MÖNIG
Physics at a gamma gamma collider.
PHOTON09, Hamburg/DE (05/2009)

D. PLEITER

Nucleon Structure from the Lattice and status of the QPACE Project.
CCS Workshop on Perspectives on Light Quark Simulations through Machine, Algorithm and ILDG, Tsukuba/JP (03/2009)
QPACE: QCD parallel computing on Cell.
International Conference for High Performance Computing, Portland/USA (11/2009)

D. RENNER

Status and prospects for the calculation of hadron structure from lattice QCD.
LAT2009, Beijing/CN (07/2009)

S. RIEMANN

Indirect sensitivity to New Physics at 1- 3 TeV.
Polarimetry at the CLIC sources.
CLIC09, Geneva/CH (10/2009)

T. RIEMANN

Evaluation of Feynman diagrams with Mellin-Barnes representations.
CALC 2009, Dubna/RU (07/2009)

S. RIMJAEM ET AL.

Recent Emittance Measurement Results for the Upgraded PITZ facility.
FEL09, Liverpool/UK (08/2009)

C. ROTT, ICECUBE COLLABORATION

Search for Dark Matter from the Galactic Halo with IceCube.
CCAPP Symposium, Columbus/USA (10/2009)

S. SCHUWALOW

Small angle detectors for ILC and LHC.
LP09, Hamburg/DE (08/2009)

Forward Calorimetry.

TILC 09, Tsukuba/JP (04/2009)

Polarization effects in the radiation damaged scCVD Diamond detectors.

2009 Nuclear Science Symposium and Medical Imaging Conference, Orlando/USA (10/2009)

New perspectives for heavy flavour physics from the lattice.
MOREW09, La Thuile/IT (03/2009)

C. SPIERING

Astroparticle Physics – The European Strategy.
13th International Workshop on Neutrino Telescopes, Venice/IT (03/2009)

Astroparticle Physics: Relations to CERN.
Workshop New Opportunities, Geneva/CH (05/2009)

Astroparticle Physics and the European Strategy.
Planck09-Conference, Padua/IT (05/2009)

Astroparticle Physics and the LHC.
EPS-ECFA Meeting, Krakau/PL (07/2009)

IceCube Results.

EPS Conference, Krakau/PL (07/2009)

Connections between IceCube and KM3NeT.

Workshop on very large volume neutrino telescopes, Athen/GR (10/2009)

Astroparticle Physics at Highest Energies.

OECD Global Science Forum, Paris/FR (02/2009)

F. STEPHAN

PITZ Highlights.
ICFA workshop, Los Angeles/USA (01/2009)

Developing the Electron Source for the European X-ray Free Electron Laser Project.

Siam Physics Congress, Phetchburi/TH (03/2009)

F. STEPHAN, M. KRASILNIKOV

High Brightness Beam Measurements and PITZ.
ICFA workshop, Maui/Hawaii (11/2009)

E. STRAHLER, ICECUBE COLLABORATION

Recent Results of Point Source Searches with the IceCube Neutrino Telescope.

LLWI2009, Alberta/CA (02/2009)

D. TOSI

Acoustic neutrino detection at the South Pole: Latest results from SPATS.

TEV Particle Astrophysics 2009 SALC, Stanford/USA (07/2009)

A. USHAKOV, S. RIEMANN, A. SCHÄLICHE

Target shielding studies.

LCWA 2009, Albuquerque/USA (09/2009)

F. WULF, M. KOERFER, H.J. GRABOSCH, W. GOETTMANN

Beam loss Monitors for FEL using optical Fiber.
2009 Nuclear Science Symposium and Medical Imaging Conference, Orlando/USA (10/2009)

Dissertationen

M. OHLERICH

Investigations of the Physics Potential and Detector Development for the ILC.

BTU Cottbus (2009)

DESY-THESIS-2010-008

A. POHL

Search for Subrelativistic Particles with the AMANDA Neutrino Telescope.

Uppsala University (2009)

D. TOSI

Measurement of Acoustic Attenuation in South Pole Ice with a Retrievable Transmitter.

Humboldt Universität Berlin (2009)

M. VITI

Precise and Fast Beam Energy Measurement at the International Linear Collider.

Humboldt Universität (2009)

DESY-THESIS-2010-007

H. WISSING

Search for Relativistic Magnetic Monopoles with the AMANDA-II Detector.

RWTH Aachen (2009)

Diplomarbeiten

H. PROKOPH

Investigations on gamma-hadron separation for imaging Cherenkov telescopes exploiting the time development of particle cascades.

Universität Leipzig (2009)