

**Список работ,
опубликованных сотрудниками Лаборатории мезонной физики
в 2009 г.**

1. Backward asymmetry measurements in the elastic pion-proton scattering at resonance energies.
I.G. Alekseev, N.A. Bazhanov, Yu.A. Beloglazov, P.E. Budkovsky, E.I. Bunyatova, E.A. Filimonov, V.P. Kanavets, A.I. Kovalev, L.I. Koroleva, B.V. Morozov, V.N. Nesterov, D.V. Novimsky, V.V. Ryltsov, V.A. Shchedrov, A.D. Sulimov, V.V. Sumachev, D.N. Svirida, V.Yu. Trautman, and L.S. Zolin.
Eur. Phys. J. A, vol. 39, 163 (2009).
<http://www.springerlink.com/content/101158>
2. Determination of Dalitz plot parameter α for the decay $\eta \rightarrow 3\pi^0$ with the Crystal Ball at MAMI-B.
M. Unverzagt, P. Arguar-Bartolome, J. Ahrens, J.R.M. Annand, H.J. Arends, R. Beck, V. Bekrenev, B. Boilatt, A. Braghieri, D. Branford, W.J. Briscoe, J. Brudvik, S. Cherepnya, R.F.B. Codling, E.J. Daunie, L.V. Fil'kov, D.I. Glazer, E. Heid, D. Hornidge, O. Juhn, V.L. Kashevarov, R. Kondratiev, M. Korolija, M. Kotulla, D. Kreambrich, B. Krusche, M. Lang, V. Lisin, K. Livingston, S. Lugert, I.J.D. MacGregor, D.M. Manley, M. Martinez-Fabrigate, J.C. McGeorge, E.F. McNicoil, D. Mekterovic, V. Metag, B.M.K. Nefkens, A. Nikolaev, D. Novotny, R.O. Owens, P. Pedroni, F. Pheron, A. Polonski, S.N. Prakhov, J.W. Price, G. Rosner, M. Rost, T. Rostomyan, S. Schadmand, D. Sober, A. Starostin, I. Supek, C.M. Tarbert, A. Thomas, Th. Walcher, D.P. Watts, and F. Zehr.
Eur. Phys. J. A, vol. 39, 169 (2009).
<http://www.springerlink.com/content/101158>
3. Linear polarized photon beams at ELSA and measurement of the beam asymmetry in π^0 -photoproduction off the proton.
D. Elsner, B. Bantes, O. Bartholomy, D.E. Bayadilov, Yu.A. Beloglazov, R. Bogendörfer, R. Castelijns, V. Crede, A. Ehmanns, K. Essig, R. Ewald, I. Fabry, K. Fernet-Ponse, M. Fuchs, Ch. Funke, A.B. Gridnev, E. Gutz, S.K. Höffgen, P. Hoffmeister, I. Horn, I. Jaegle, J. Junkersfeld, H. Kalinowsky, Frank Klein, Friedrich Klein, E. Klempt, M. Konrad, N. Kotulla, B. Krusche, H. Löhner, I.V. Lopatin, J. Lotz, S. Lugert, D. Menze, T. Martens, J. Messchendorp, V. Metag, C. Morales, M. Nanova, D.V. Novinski, D. Novotny, M. Ostrick, L.M. Pant, H. van Pee, M. Pfeiffer, A.V. Sarantsev, Ch. Schmidt, H. Schmieden, B. Schoch, S. Shende, A. Süle, V.V. Sumachev, T. Szczepanek, U. Thoma, D. Trnka, D. Walther, Ch. Weinheimer, and C. Wendel (the CBELSA/TAPS Collaboration).
Eur. Phys. J. A, vol. 39, 373 (2009).
<http://www.springerlink.com/content/101158>
4. Measurement of the total cross section of the reaction $K^- p \rightarrow \Sigma^0 \gamma$ between 514 and 750 MeV/c.
T.D.S. Stanislaus, V.V. Abaev, D. Allen, C.E. Allgower, J. Alyea, M.A. Bates, V.S. Bekrenev, W.J. Briscoe, R.V. Cadman, J.R. Comfort, R. Corliss, K. Craig, A. Gibson, R. Greene, D. Grosnick, D. Isenhower, T.E. Kasprzyk, N. Knecht, D.D. Koetke, N.G. Kozlenko, S.P. Kruglov, A.A. Kulbardis, G. Lolos, I.V. Lopatin, D.M. Manley, R. Manweiler, R.A. Marušić, S. McDonald, J. Olmsted, Z. Papandreou, D. Peaslee, N. Phaisangittisakul, A.F. Ramirez, M. Sadler, S. Schlobohm, A. Shafi, H. Spinka, H.M. Staudenmaier, I.I. Strakovsky, I. Supek, J. Thoms, and S. Wolf.
Phys. Rev. C, vol. 79, 015203 (2009).
<http://prc.aps.org>
5. Measurement of the slope parameter α for the $\eta \rightarrow 3\pi^0$ decay with the Crystal Ball at MAMI-C.
S. Prakhov, B.M.K. Nefkens, J. Ahrens, J.R.M. Annand, H.J. Arends, K. Bantawa, R. Beck, V. Bekrenev, B. Boilatt, A. Braghieri, D. Branford, W.J. Briscoe, J. Brudvik, S. Cherepnya, R.F.B. Codling, E.J. Downie, D.I. Glazier, R. Gregor, E. Heid, D. Hornidge, O. Jahn, V.L. Kashevarov, J.D. Kelle, A. Knezevic, R. Kondratiev, M. Korolija, M. Kotulla,

- A. Koulbardin, D. Kreambrich, S. Kruglov, B. Krusche, M. Lang, V. Lisin, K. Livingston, I.J.D. MacGregor, D.M. Manley, M. Martinez, J.C. McGeorge, E.F. McNicoil, D. Mekterovic, V. Metag, A. Nikolaev, D. Novotny, M. Ostrick, R.O. Owens, P. Pedroni, F. Pheron, A. Polonski, J. Robonson, G. Rosner, M. Rost, T. Rostomyan, S. Schadmand, D. Sober, A. Starostin, I.M. Suarez, I. Supek, C.M. Tarbert, M. Thiel, A. Thomas, V. Unverzagt, Th. Walcher, D.P. Watts, and F. Zehr.
Phys. Rev. C, vol. 79, 035204 (2009).
<http://prc.aps.org>
6. Search for the charge-conjugation-forbidden decay $\omega \rightarrow \eta\pi^0$.
A. Starostin, B.M.K. Nefkens, J. Ahrens, J.R.M. Annand, H.J. Arends, K. Bantawa, P.A. Bartolome, R. Beck, V. Bekrenev, A. Braghieri, W.J. Briscoe, J. Brudvik, S.Cherepnaya, E.J. Downie, L.V. Filkov, D.I. Glazier, R. Gregor, E. Heid, D. Hornidge, O. Jahn, T.C. Jude, V.L. Kashevarov, R. Kondratiev, M. Korolija, M. Kotulla, A. Koulbardin, S. Kruglov, B. Krusche, V. Lisin, K. Livingston, I.J.D. MacGregor, Y. Maghrbi, D.M. Manley, M. Martinez, J.C. McGeorge, E.F. McNicoil, D. Mekterovic, V. Metag, S. Micanovic, M. Ostrick, P. Pedroni, F. Pheron, A. Polonski, S. Prakhov, J. Robonson, G. Rosner, M. Rost, S. Schadmand, M.H. Sikora, D. Sober, I.M. Suarez, I. Supek, C.M. Tarbert, M. Thiel, A. Thomas, V. Unverzagt, and D.P. Watts.
Phys. Rev. C, vol. 79, 065201 (2009).
<http://prc.aps.org>
7. Measurement of $\pi^0\Lambda$, \bar{K}^0n and $\pi^0\Sigma^0$ production in K^-p interactions for p_{K^-} between 514 and 750 MeV/c.
S. Prakhov, B.M.K. Nefkens, C.E. Allgower, V. Bekrenev, W.J. Briscoe, J.R. Comfort, K. Craig, D. Grosnick, D. Isenhower, N. Knecht, D.D. Koetke, A. Koulbardin, N. Kozlenko, S. Kruglov, G. Lolos, I. Lopatin, D.M. Manley, R. Manweiler, A. Marušić, S. McDonald, J. Olmsted, Z. Papandreou, D. Peaslee, N. Phaisangittisakul, J.W. Price, A.F. Ramirez, M. Sadler, A. Shafi, H. Spinka, T.D.S. Stanislaus, H.M. Staudenmaier, A. Starostin, H.M. Staudenmaier, and I. Supek (the Crystal Ball Collaboration at the AGS).
Phys. Rev. C, vol. 80, 025204 (2009).
<http://prc.aps.org>
8. Beam-helicity asymmetry in double pion photoproduction off the proton.
D. Kreambrich, F. Zehr, A. Fix, L. Roca, P. Aguar, J. Ahrens, J.R.M. Annand, H.J. Arends, R. Beck, V. Bekrenev, B. Boilatt, A. Braghieri, D. Branford, W.J. Briscoe, J. Brudvik, S.Cherepnaya, R. Codling, E.J. Downie, D.I. Glazier, P. Grabmayr, R. Gregor, E. Heid, D. Hornidge, O. Jahn, V.L. Kashevarov, A. Knezevic, R. Kondratiev, M. Korolija, M. Kotulla, B. Krusche, A. Koulbardin, M. Lang, V. Lisin, K. Livingston, S. Lagert, I.J.D. MacGregor, D.M. Manley, M. Martinez, J.C. McGeorge, D. Mekterovic, V. Metag, B.M.K. Nefkens, A. Nikolaev, P. Pedroni, F. Pheron, A. Polonsky, S.N. Prakhov, J.W. Price, G. Rosner, M. Rost, T. Rostomyan, S. Schumann, D. Sober, A. Starostin, I. Supek, C.M. Tarbert, A. Thomas, V. Unverzagt, Th. Walcher, and D.P. Watts.
Phys. Rev. Lett., vol. 103, 052002 (2009).
<http://prl.aps.org>
9. Photoproduction of $\pi^0\eta$ on protons and the $\Delta(1700) D_{33}$ resonance.
V.L. Kashevarov, A. Fix, P. Aguar-Bartolome, L.K. Akasoy, J.R.M. Annand, H.J. Arends, K. Bantawa, R. Beck, V. Bekrenev, H. Berghäuser, B. Boilatt, A. Braghieri, D. Branford, W.J. Briscoe, J. Brudvik, S.Cherepnaya, E.J. Downie, P. Drexler, L.V. Fil'kov, D.I. Glazier, P. Grabmayr, R. Gregor, E. Heid, D. Hornidge, O. Jahn, T.C. Jude, V.A. Knezevic, R. Kondratiev, M. Korolija, M. Kotulla, A. Koulbardin, S. Kruglov, B. Krusche, V. Lisin, K. Livingston, I.J.D. MacGregor, D.M. Manley, M. Martinez, J.C. McGeorge, E.F. McNicoll, D. Mekterovic, V. Metag, S. Micanovic, B.M.K. Nefkens, R. Novotny, M. Ostrick, R.O. Owens, P. Pedroni, F. Pheron, A. Polonsky, S.N. Prakhov, J. Robonson, G. Rosner, T. Rostomyan, S. Schumann, D. Sober, A. Starostin, I.M. Suarez, I. Supek, C.M. Tarbert, M. Their, A. Thomas, V. Unverzagt, D.P. Watts, I. Zamboni, and F. Zehr.
Eur. Phys. J. A, vol. 42, 141 (2009).
<http://www.springerlink.com/content/101158>

10. Photoproduction of η and η' of mesons off protons.
V. Crede, A. McVeigh, F.V. Anisovich, J.C.S. Bacelar, B. Bantes, O. Bartholomy, D.E.Bayadilov, R. Beck, Yu.A. Beloglazov, R. Castelijns, A. Ehmanns, K. Essig, R. Ewald, I. Fabry, M. Fuchs, Chr. Funke, R. Gothe, R. Gregor, A.B. Gridnev, E. Gutz, St Höffgen, P. Hoffmeister, I. Horn, I. Jaegle, J. Junkersfeld, H. Kalinowsky, S. Kammer, Frank Klein, Friedrich Klein, E. Klempt, M. Konrad, N. Kotulla, B. Krusche, J. Langheinrich, H. Löhner, I.V. Lopatin, J. Lotz, S. Lugert, D. Menze, M. Nanova, V.A. Nikonov, D.V. Novinski, D. Novotny, M. Ostrick, L.M. Pant, H. van Pee, M. Pfeiffer, A.V. Sarantsev, Ch. Schmidt, H. Schmieden, B. Schoch, S. Shende, A. Süle, V.V. Sumachev, T. Szczepanek, U. Thoma, D. Trnka, R. Varma, D. Walther, Ch. Weinheimer, Ch. Wendel, and A. Wilson (the CBELSA/TAPS Collaboration).
Phys. Rev. C, vol. 80, 055202 (2009).
<http://prc.aps.org>
11. Photoproduction of meson pairs: First measurement of the polarization observable I^{Λ} .
E. Gutz, V. Sokhoyan, H. van Pee, A.V. Anisovich, J.C.S. Bacelar, B. Bantes, O. Bartholomy, D. Bayadilov, R. Beck, Yu. Beloglazov, R. Castelijns, V.Crede, H. Dutz, D. Elsner, R. Ewald, F. Frommberger, M. Fuchs, Ch. Funke, R. Gregor, A. Gridnev, W. Hillert, Ph. Hoffmeister, I. Horn, I. Jaegle, J.Junkersfeld, H. Kalinowsky, S. Kammer, V. Kleber, Frank Klein, Friedrich Klein, E. Klempt, M. Kotulla, B. Krusche, M. Lang, H. Loehner, I. Lopatin, S.Lugert, D. Menze, T. Mertens, J.G. Messchendorp, V. Metag, M. Nanova, V. Nikonov, D. Novinski, R. Novotny, M. Ostrick, L. Pant, M. Pfeiffer, D.Piontek, W. Roberts, A. Roy, A. Sarantsev, S. Schadmand, Ch. Schmidt, H. Schmieden, B. Schoch, S. Shende, A. Suele, V. Sumachev, T. Szczepanek, A. Thiel, U. Thoma, D. Trnka, R. Varma, D. Walther, Ch. Weinheimer, Ch. Wendel,
e-Print: [arXiv:0912.2632](https://arxiv.org/abs/0912.2632) [nucl-ex] Dec 2009. 9pp.