

Amalsky G.M. — publications 1972-2017.

1. **Scaling of differential Cross Section Ratios in Inelastic (p,p') reaction with Nuclei at 1 GeV.** O.V.Miklukho, A.Yu.Kiselev, G.M.Amalsky, V.A.Andreev, G.E.Gavrilov, D.S.Ilyin, A.A.Izotov, P.V.Kravchenko, D.A.Maysuzenko, V.I.Murzin, A.N.Prokofiev, A.V.Shvedchikov, S.i.Trush and A.A.Zhdanov. JEPT Letters, vol **106**, 2, pp. 69-72 (2017) [Pis'ma v ZhETF, vol **106**, 2, pp. 63-68 (2017)].
2. **Structure effects in polarization and cross sections for A(p,p')X inelastic reactions on Ca^{40} and C^{12} nuclei at 1 GeV.** O.V.Miklukho, A.Yu.Kiselev, G.M.Amalsky, V.A.Andreev, G.E.Gavrilov, D.S.Ilyin, A.A.Izotov, N.G.Kozlenko, P.V.Kravchenko, D.A.Maysuzenko, V.I.Murzin, A.N.Prokofiev, A.V.Shvedchikov, S.i.Trush and A.A.Zhdanov. Phys Atom Nucl, vol **80**, 2, 299-306 (2017) [Yad. Phys. vol **80**, 2, 175-182 (2017)].
3. **Structure effects in polarization and cross sections for A(p,p')X inelastic reactions on Ca^{40} and C^{12} nuclei at 1 GeV.** O.V.Miklukho, A.Yu.Kiselev, G.M.Amalsky, V.A.Andreev, G.E.Gavrilov, D.S.Ilyin, A.A.Izotov, N.G.Kozlenko, P.V.Kravchenko, D.A.Maysuzenko, V.I.Murzin, A.N.Prokofiev, A.V.Shvedchikov, S.i.Trush and A.A.Zhdanov. arXiv: 1606.03006v1 [nucl-ex] 9 June 2016.
4. **Структура поляризации в реакции $p + Ca^{40} \rightarrow p' + X$ при 1 ГэВ,** О.В.Миклухо и др., ФБГУ "ПИЯФ" НИЦ "Курчатовский институт", *Основные результаты научной деятельности 2015*, Гатчина, 2016, с.67.
5. **Observation of a Polarization Structure in the Ca^{40} (p,p')X Reaction at 1 GeV** O.V.Miklukho, A.Yu.Kiselev, G.M.Amalsky, V.A.Andreev, G.E.Gavrilov, A.A.Izotov, N.G.Kozlenko, P.V.Kravchenko, M.P.Levchenko, D.V.Novinsky, A.N.Prokofiev, A.V.Shvedchikov, S.i.Trush and A.A.Zhdanov. JETP Letters, 2015, vol.**102**, 1, pp.11-13.
6. **Модификация матрицы нуклон-нуклонного рассеяния в ядерной среде при энергии 1 ГэВ,** О.В.Миклухо и др., ФБГУ "ПИЯФ" НИЦ "Курчатовский институт", *Основные результаты научной деятельности 2010-2013*, Гатчина, 2014, с.78.
7. **"Polarization parameters of the quasi-elastic (p,2p) reaction with nuclei at 1 GeV"**, O. V. Miklukho et al., arXiv:1402.0308v1[nucl-ex], 3 Feb. 2014.
8. **"Polarization effects in the quasi-elastic (p, 2p) reaction with the nuclear S-shell protons at 1 GeV"**, O. V. Miklukho et al., Phys.Atom.Nucl. 76(7), p. 871, (2013).
9. **"LHC boson 126 GeV and total (N-N) and $\gamma - \gamma$ cross-sections"**, G. M. Amalsky, Relativistic Nuclear Physics and Quantum Chromodynamics, p.21, Dubna, 2012.
10. **"Possible origin of observed at incident proton energy 50 GeV events $pp \rightarrow pp + n\pi$ with anomalous multiplicity"**, G. M. Amalsky, Relativistic Nuclear Physics and Quantum Chromodynamics, p.19-20, Dubna, 2012.
11. **"Polarization and spin correlation parameters in proton knockout reactions from $S_{1/2}$ orbits at 1 GeV"**, O. V. Miklukho et al., e-Print: arXiv:1203.4057[nucl-ex], Mar. 2012.
12. **"Investigation of inelastic $Ca^{40}(pp)X$ reaction at 1 GeV"**, O. V. Miklukho et al., arXiv:1103.6113v1[nucl-ex], Mar. 2011.
13. **"Explanation of empirical ratios $\sigma_{inel} \approx 5\sigma_{el}$ and $\sigma_{tot} \approx \sigma_{tot}^0(\sqrt{s}/\sqrt{s_0})^{1/5}$ of N-N cross-sections at energies $\sqrt{s} = 5 \sim 10^4 GeV$ and $\sqrt{s} > \sqrt{s_0}$ "**, G. M. Amalsky, Relativistic Nuclear Physics and Quantum Chromodynamics, vol. I, p.39-46, Dubna, 2010.
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18. **”Polarization in quasielastic (p,2p) scattering on a He^4 nucleus of 1 GeV”**, O. V. Miklukho et al., Phys.Atom.Nucl. 69:452-459, 2006.

19. **”Статистическая физика неразличимых событий (формализм и примеры применения)”**, Г. М. Амальский, препринт ПИЯФ-2005 2828, 41 с., Гатчина, 2005.

14. **”Polarization for proton knockout reactions from S(1/2) orbits at 1 GeV”**, V.A.Andreev et al., Phys.Rev.C69:024604, 2004.

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