

# List of Publications (2006-2016)

## by Egle TOMASI-GUSTAFSSON

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- 1. Polarization Transfer Observables in Elastic Electron Proton Scattering at  $Q^2 = 2.5, 5.2, 6.8, \text{ and } 8.5 \text{ GeV}^2$**   
A. J. R. Puckett *et al.*,  
arXiv:1707.08587 [nucl-ex] 43p.
- 2. Antiproton-proton annihilation into light neutral meson pairs within an effective meson theory**  
Y. Wang, Y. M. Bystritskiy, A. I. Ahmadov and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevC.96.025204  
Phys. Rev. C **96**, no. 2, 025204 (2017) 11p.
- 3. Neutron polarimetry in the momentum range 1-6 GeV**  
Y. Wang, D. Marchand, N. Piskunov and E. Tomasi-Gustafsson  
DOI:10.1051/epjconf/201713801023  
EPJ Web Conf. **138**, 01023 (2017) 7p.
- 4. Highlights in the hadron electromagnetic structure**  
E. Tomasi-Gustafsson, S. Pacetti and A. Bianconi  
DOI:10.1051/epjconf/201713801003  
EPJ Web Conf. **138**, 01003 (2017) 10p.
- 5. Radiative corrections to elastic proton-electron scattering measured in coincidence**  
G. I. Gakh, M. I. Konchatnij, N. P. Merenkov and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevC.95.055207  
Phys. Rev. C **95**, no. 5, 055207 (2017) 14p.
- 6. Fourth dimension of the nucleon structure: Spacetime analysis of the timelike electromagnetic proton form factors**  
A. Bianconi and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevC.95.015204  
Phys. Rev. C **95**, no. 1, 015204 (2017)
- 7. Feasibility study for the measurement of  $\pi N$  transition distribution amplitudes at  $\overline{\text{PANDA}}$  in  $\bar{p}p \rightarrow J/\psi\pi^0$**   
B. Singh *et al.* [PANDA Collaboration],  
DOI:10.1103/PhysRevD.95.032003  
Phys. Rev. D **95**, no. 3, 032003 (2017) 25p.
- 8. Threshold phenomenology of nucleon form factors**  
R. Baldini Ferroli, S. Pacetti and E. Tomasi-Gustafsson  
DOI:10.3969/j.issn.0253-2778.2016.04.008  
J. Univ. Sci. Tech. China **46**, no. 4, 308 (2016) 8p.
- 9. Form factor ratio from unpolarized elastic electron proton scattering**  
S. Pacetti and E. Tomasi-Gustafsson  
DOI: 10.1103/PhysRevC.94.055202  
Phys Rev. C **94**, 055202 (2016) 15p.

10. **Feasibility studies of time-like proton electromagnetic form factors at PANDA at FAIR**  
B. Singh *et al.* [PANDA Collaboration]  
DOI: 10.1140/epja/i2016-16325-5  
Eur. Phys. J. A **52**, 325-358 (2016).
11. **Phenomenological analysis of near threshold periodic modulations of the proton timelike form factor**  
A. Bianconi and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevC.93.035201  
Phys. Rev. C **93**, 035201, 1-10 (2016).
12. **Periodic interference structures in the timelike proton form factor**  
A. Bianconi and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevLett.114.232301  
Phys. Rev. Lett. **114**, 232301, 1-5 (2015).
13. **Proton electromagnetic form factors: Basic notions, present achievements and future perspectives**  
S. Pacetti, R. Baldini Ferroli and E. Tomasi-Gustafsson  
DOI:10.1016/j.physrep.2014.09.005  
Phys. Rept. **550-551**, 1-103 (2015).
14. **Experimental access to Transition Distribution Amplitudes with the PANDA experiment at FAIR**  
B. P. Singh *et al.* [PANDA Collaboration].  
DOI:10.1140/epja/i2015-15107-y  
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15. **Hard light meson production in (anti)proton-hadron collisions and charge-exchange reactions**  
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DOI:10.1134/S1547477115010161  
Phys. Part. Nucl. Lett. **12**, 1-7 (2015).
16. **Proton electromagnetic form factors: present status and future perspectives at PANDA**  
E. Tomasi-Gustafsson [PANDA Collaboration].  
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17. **Peculiar Features of Electromagnetic Proton Form Factors**  
E. Tomasi-Gustafsson  
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CERN-Proceedings-2015-001.
18. **Model independent study of massive lepton elastic scattering on the proton, beyond the Born approximation**  
G. I. Gakh, M. Konchatnyi, A. Dbeyssi and E. Tomasi-Gustafsson  
DOI:10.1016/j.nuclphysa.2014.12.003  
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19. **Measurement of analyzing power for the reaction  $\bar{p} + \text{CH}_2$  at polarized proton momentum of 7.5 GeV/c (ALPOM2 proposal)**  
V. P. Balandin *et al.* [The ALPOM2 Collaboration].  
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20. **Polarization observables in lepton-deuteron elastic scattering including the lepton mass**  
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DOI:10.1103/PhysRevC.90.064901  
Phys. Rev. C **90**, 064901, 1-13 (2014).
21. **Radiative corrections for electron proton elastic scattering taking into account high orders and hard photon emission**  
E. A. Kuraev, A. I. Ahmadov, Y. M. Bystritskiy and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevC.89.065207  
Phys. Rev. C **89**, 065207, 1-16 (2014).
22. **Antiproton Physics with  $\overline{PANDA}$  at FAIR**,  
Egle Tomasi-Gustafsson on behalf of the PANDA Collaboration,  
"C14-06-02.6 Proceedings, 18th International Seminar on High Energy Physics (Quarks 2014): Suzdal, Russia, June 2-8, 2014", 10 p.
23. **Proton Form Factors in Space-like and Time-like regions**  
Egle Tomasi-Gustafsson  
33rd International Workshop on Nuclear Theory Rila Mountains, Bulgaria, 22-28 June, 2014, Proceedings,
24. **Are narrow unflavoured mesons a signature of new physics?**  
B. Tatischeff and E. Tomasi-Gustafsson.q  
POS-(BALDIN-ISHEPP-XXII)-111, 2014, 8p.
25. **Proton form factors in space-like and time-like regions**  
S. Pacetti, R. Baldini Ferroli and E. Tomasi-Gustafsson.  
PoS BaldinISHEPPXXII -032 (2014), 8p.
26. **Light meson emission in (anti)proton induced reactions**  
E. A. Kuraev, E. S. Kokouline and E. Tomasi-Gustafsson.  
PoS-(Baldin-ISHEPP-XXII)-110 (2014) 8p.
27. **Electromagnetic proton form factors: perspectives for PANDA**  
E. Tomasi-Gustafsson on behalf of the PANDA Collaboration,  
Proceedings, 25th International Nuclear Physics Conference (INPC 2013)  
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28. **Proton Form Factors in Space-like and Time-Like Regions**  
E. Tomasi-Gustafsson, S. Pacetti and R. Baldini-Ferroli.  
Proceedings, 33nd International Workshop on Nuclear Theory (IWNT 2014).  
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29. **Technical design report for the PANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker**  
W. Erni *et al.* [PANDA Collaboration]  
DOI:10.1140/epja/i2013-13025-8  
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30. **On the measurement of  $\chi_2(^3P_2)$  quarkonium state in the processes  $e^+ + e^- \rightarrow \bar{p} + p$  and  $\bar{p} + p \rightarrow e^+ + e^-$**   
E. A. Kuraev, Y. M. Bystritskiy, V. V. Bytev and E. Tomasi-Gustafsson  
DOI:10.1016/j.nuclphysa.2013.10.009  
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31. **Proton electron elastic scattering and the proton charge radius**  
G. I. Gakh, A. Dbeyssi, E. Tomasi-Gustafsson, D. Marchand, A. Dbeyssi, E. Tomasi-Gustafsson, D. Marchand and V. V. Bytev  
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32. **Compilation and analysis of charge asymmetry measurements from electron and positron scattering on nucleon and nuclei**  
E. Tomasi-Gustafsson, M. Osipenko, E. A. Kuraev and Y. Bystritsky  
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33. **Tests of optical glues for the PANDA electromagnetic calorimeter**  
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34. **General analysis and numerical estimations of polarization observables in  $\bar{N} + N \rightarrow \pi + e^+ + e^-$  reaction in an exclusive experimental setup**  
G. I. Gakh, E. Tomasi-Gustafsson, A. Dbeyssi and A. G. Gakh  
DOI:10.1103/PhysRevC.86.025204  
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35. **Virtual Compton Scattering and the Generalized Polarizabilities of the Proton at  $Q^2 = 0.92$  and  $1.76 \text{ GeV}^2$**   
H. Fonvieille *et al.* [Jefferson Lab Hall A Collaboration]  
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36. **Symmetries and hadron form factors**  
E. Tomasi-Gustafsson  
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37. **Experimental constraint on the  $\rho^-$  meson form factors in the time-like region**  
A. Dbeyssi, E. Tomasi-Gustafsson, G. I. Gakh and C. Adamuscin  
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38. **Final Analysis of Proton Form Factor Ratio Data at  $Q^2 = 4.0, 4.8$  and  $5.6 \text{ GeV}^2$**   
A. J. R. Puckett *et al.* [The JLab-GEP collaboration]  
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39. **Proton-antiproton annihilation into massive leptons**  
A. Dbeyssi, E. Tomasi-Gustafsson, G. I. Gakh and M. Konchatnyi.  
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40. **Polarization components in  $\pi^0$  photoproduction at photon energies up to  $5.6 \text{ GeV}$**   
W. Luo *et al.* [Gep-III and GEp2gamma Collaborations]  
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41. **A Model for space and time-like proton (neutron) form factors**  
E. A. Kuraev, E. Tomasi-Gustafsson and A. Dbeyssi  
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42. **Polarization effects in elastic proton-electron scattering**  
G. I. Gakh, A. Dbeyssi, D. Marchand, V. V. Bytev and E. Tomasi-Gustafsson  
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43. **Annihilation of  $\bar{p} + p \rightarrow e^+ + e^- + \pi^0$  and  $\bar{p} + p \rightarrow \gamma + \pi^0$  through  $\omega$ -meson intermediate state**  
 E. A. Kuraev, Y. M. Bystritskiy, V. V. Bytev, E. Tomasi-Gustafsson, A. Dbeyssi and E. Tomasi-Gustafsson  
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44. **Classification of  $\bar{p} + p$  induced reactions**  
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45. **Proton Time-Like Form Factors at PANDA**  
 M. Maggiora and E. Tomasi-Gustafsson  
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46. **Influence of final state radiation in the process  $e^+ + e^- \rightarrow \bar{p} + p(\gamma)$**   
 V. V. Bytev, E. A. Kuraev, E. Tomasi-Gustafsson and S. Pacetti  
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47. **Measurement of tensor polarization of deuterons from  ${}^3\text{He} \rightarrow d + p$  breakup at momenta from 4.60 to 5.66 GeV/c**  
 I. M. Sitnik, C.F. Perdrisat, E. Tomasi-Gustafsson, J. Ball, L. Bimbot, Y. Bisson, M. Boivin, Yu.T. Borzunov, J.L. Boyard, Ph. Courtat, R. Gacougnolle, L.B. Golovanov, T. Hennino, M.K. Jones, R. Kunne, L.V. Malinina, S. Nedev, N.M. Piskunov, V. Punjabi, J.L. Sans, R. Skowron, E.A. Strokovsky, and J. Yonnet  
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50. **Some QED processes: Light-by-light and Moeller scattering**  
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51. **Processes with heavy ion collisions**  
 A. B. Arbuzov, V. V. Bytev, E. A. Kuraev, E. Tomasi-Gustafsson and Y. M. Bystritskiy  
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52. **Analysis of polarization observables and radiative effects for the reaction  $\bar{p} + p \rightarrow e^+ + e^-$**   
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53. **Polarization effects in  $\bar{N} + N \rightarrow \pi + \ell^+ + \ell^-$  reaction. General analysis and numerical estimations in an exclusive experimental setup**  
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54. **Search for effects beyond the Born approximation in polarization transfer observables in  $\bar{e}p$  elastic scattering**  
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55. **Measurement of tensor polarization of deuterons from  ${}^3\text{He} \rightarrow d + p$  breakup at internal momenta up to 0.4-GeV/c**  
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56. **Proton Form Factors: phenomenology**  
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57. **Peripheral processes in QED at high energies**  
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58. **Radiative corrections to the Bhabha scattering**  
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59. **Structure function approach in QED for high energy processes**  
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60. **Bremsstrahlung mechanism of heavy vector meson production**  
V. Bytev, E. Kuraev, E. Tomasi-Gustafsson and P. Wang  
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61. **Radiative proton-antiproton annihilation to a lepton pair**  
A. I. Ahmadov, V. V. Bytev, E. A. Kuraev and E. Tomasi-Gustafsson  
DOI:10.1103/PhysRevD.82.094016  
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62. **Recoil Polarization Measurements of the Proton Electromagnetic Form Factor Ratio to  $Q^2 = 8.5 \text{ GeV}^2$**   
A. J. R. Puckett *et al.* [The JLab-GEP Collaboration]  
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63. **Excitation of physical vacuum through  $p\bar{p}$  annihilation in selected channels**  
E. A. Kuraev and E. Tomasi-Gustafsson  
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64. **Exclusive processes induced by antiprotons. Opportunities for QCD studies**  
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65. **Bremsstrahlung and pair production processes at low energies, multi-differential cross section and polarization phenomena**  
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66. **The two photon exchange amplitude in  $ep$  and  $e\mu$  elastic scattering: A Comparison**  
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67. **General analysis of two-photon exchange in elastic electron -  ${}^4\text{He}$  scattering and  $e^+ + e^- \rightarrow \pi^+ + \pi^-$**   
 G. I. Gakh and E. Tomasi-Gustafsson  
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70. **Relativistically invariant analysis of Delta-isobar production in deuteron electrodisintegration:  $e^- + d \rightarrow e^- + \Delta + N$ : General analysis of polarization effects**  
 G. I. Gakh, E. Tomasi-Gustafsson and A. G. Gakh  
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71. **Virtual Compton Scattering and Neutral Pion Electroproduction in the Resonance Region up to the Deep Inelastic Region at Backward Angles**  
 G. Laveissiere *et al.* [JLab Hall A Collaboration]  
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74. **Charge asymmetry in electron positron to  $p\bar{p}$  annihilation**  
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75. **Form factor measurements with PANDA at FAIR**  
 E. Tomasi-Gustafsson [The PANDA collaboration]  
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