

List of publications

1. *Harmonic decomposition of two particle angular correlations in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*
ALICE Collaboration (K. Aamodt et al.)
Physics Letters B, Volume 708, Issues 3–5, 28 February 2012, Pages 249-264
2. *Heavy flavour decay muon production at forward rapidity in proton–proton collisions at $\sqrt{s} = 7$ TeV*
ALICE Collaboration (K. Aamodt et al.)
Phys. Lett. B 708 (2012) 265
3. *J/psi polarization in pp collisions at $\sqrt{s}=7$ TeV*
ALICE Collaboration (K. Aamodt et al.)
Phys.Rev.Lett. 108 (2012) 082001
4. *Measurement of charm production at central rapidity in proton-proton collisions at $\sqrt{s} = 7$ TeV*
ALICE Collaboration (B. Abelev et al.).
JHEP 1201:128,2012
5. *Shape isomerism and shape coexistence effects on the Coulomb energy differences in the $N=Z$ nucleus ^{66}As and neighboring $T=1$ multiplets*
G. de Angelis, K. T. Wiedemann, T. Martinez, R. Orlandi, **A. Petrovici**, E. Sahin, J. J. Valiente-Dobon, D. Tonev, S. Lunardi, B. S. Nara Singh, R. Wadsworth, A. Gadea, K. Kaneko, P. G. Bizetti, A. M. Bizetti-Sona, B. Blank, A. Bracco, M. P. Carpenter, C. J. Chiara, E. Farnea, A. Gottardo, J. P. Green, S. M. Lenzi, S. Leoni, C. J. Lister, D. Mengoni, D. R. Napoli, O. L. Pechenaya, F. Recchia, W. Reviol, D. G. Sarantites, D. Seweryniak, C. A. Ur, and S. Zhu
Phys. Rev. C 85 (2012) 034320
6. *Triple shape coexistence and shape evolution in the $N=58$ Sr and Zr isotopes*
A. Petrovici
Phys. Rev. C (2012)
7. *Collective phenomena in heavy ion collisions*
M. Petrovici si A. Pop
in curs de publicare in Rom. Jour. Phys
8. *A Two-Dimension Position Sensitive High Efficiency Transition Radiation Detector for High Counting Rate Environment*
M. Petrovici, V. Simion, M. Petris, V. Aprodu, D. Bartos, G. Caragheorghopol, V. Catanescu, A. Herghelegiu, L. Prodan, A. Radu, C. Bergmann, M. Klein-Boesing, J. P. Wessels
Rom. Journ. Phys. 56:654-663, 2011
9. *Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions at $\sqrt{s(NN)}=2.76$ TeV*
Alice Collaboration

- PHYS. REV. LETT. Volume: 106 Issue: 3 Article Number: 032301 Published: JAN 20 2011
10. *Femtoscopy of pp collisions at root s=0.9 and 7 TeV at the LHC with two-pion Bose-Einstein correlations*
ALICE Collaboration
PHYSICAL REVIEW D Volume: 84 Issue: 11 Article Number: 112004 DOI: 10.1103/PhysRevD.84.112004, DEC 14 2011
 11. *Higher Harmonic Anisotropic Flow Measurements of Charged Particles in Pb-Pb Collisions at root s(NN)=2.76 TeV*
ALICE Collaboration
PHYSICAL REVIEW LETTERS Volume: 107 Issue: 3 Article Number: 032301 DOI: 10.1103/PhysRevLett.107.032301 Published: JUL11 2011
 12. *Measurement of charm production at central rapidity in proton-proton collisions at sqrt(s) = 7 TeV*
ALICE Collaboration
JHEP 01 (2012) 128
 13. *Production of pions, kaons and protons in pp collisions at root s=900 GeV with ALICE at the LHC*
ALICE Collaboration
EUROPEAN PHYSICAL JOURNAL C Volume: 71 Issue: 6 Article Number: 1655 DOI: 10.1140/epjc/s10052-011-1655-9 Published: JUN 2011
 14. *Rapidity and transverse momentum dependence of inclusive J/psi production in pp collisions at root s=7 TeV*
ALICE Collaboration
PHYSICS LETTERS B Volume: 704 Issue: 5 Pages: 442-455 DOI: 10.1016/j.physletb.2011.09.054, OCT 25 2011
 15. *Strange particle production in proton-proton collisions at root s=0.9 TeV with ALICE at the LHC*
ALICE Collaboration
EUROPEAN PHYSICAL JOURNAL C Volume: 71 Issue: 3 Article Number: 1594 DOI: 10.1140/epjc/s10052-011-1594-5 Published: MAR 2011
 16. *Strip Readout RPC Based on Low Resistivity Glass Electrodes*
M.Petris M.Petrovici, V.Simion, D.Bartos, G. Caragheorgheopol, F. Dorhmann, K.D. Hildenbrand, B. Kaempfer, R. Kotte, L. Naumann, D. Stach, M.C.S. Williams, J. Wuenstenfeld
Rom. Journ. Phys.56:349-358, 2011
 17. *Suppression of charged particle production at large transverse momentum in central Pb-Pb collisions at root s(NN)=2.76 TeV*
Alice Collaboration
PHYSICS LETTERS B Volume: 696 Issue: 1-2 Pages: 30-39 Published: JAN 24 2011
 18. *Two-pion Bose-Einstein correlations in central Pb-Pb collisions at root(NN)-N-S=2.76 TeV*

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PHYSICS LETTERS B Volume: 696 Issue: 4 Pages: 328-337, FEB 7 2011

19. *Beyond mean field approach to the beta decay of medium mass nuclei relevant for nuclear astrophysics*
A. Petrovici, K. W. Schmid, and A. Faessler
Prog. Part. Nucl. Phys. 66 (2011) 287
20. *Self-consistent description of shape coexistence in the $A\sim 100$ Zr nuclei*
A. Petrovici, K.W. Schmid, A.Faessler
J. Phys.: Conference Series 312 (2011) 092051
21. *Femtoscopia of Pb–Pb and pp collisions at the LHC with the ALICE experiment*
A Kisiel, for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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22. *ALICE detector upgrades*
Thomas Peitzmann for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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23. *ALICE results from the first Pb–Pb run at the CERN LHC*
J Schukraft (for the **ALICE Collaboration**), full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801
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24. *Anisotropic flow at the LHC measured with the ALICE detector*
Raimond Snellings, for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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25. *Anisotropic flow of charged particles at $\sqrt{s_{NN}}=2.76$ TeV measured with the ALICE detector*
Ante Bilandzic for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
Journal of Physics G: Nuclear and Particle Physics Volume 38, no.12, 2011, 124052
26. *Bulk properties of Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV measured by ALICE*
Alberica Toia for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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27. *Centrality dependence of the charged-particle multiplicity density at mid-rapidity in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*
By **ALICE Collaboration** (K. Aamodt et al.).
Phys. Rev. Lett. 106, 032301 (2011)
28. *Charge-dependent azimuthal correlations in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*
Panos Christakoglou for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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29. *Charged particle directed flow in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV measured with ALICE at the LHC*
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31. *Charged-particle multiplicity and transverse energy in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with ALICE,*
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32. *Cross-section normalization in proton–proton collisions at $\sqrt{s}= 2.76$ and 7 TeV, with ALICE at the LHC*
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33. *D meson nuclear modification factors in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ Te, measured with the ALICE detector*
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34. *Diffraction dissociation in proton–proton collisions at $\sqrt{s}= 0.9, 2.76$ and 7 TeV with ALICE at the LHC*
M G Poghosyan for the **ALICE collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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35. *Elliptic and triangular flow of identified particles measured with the ALICE detector at the LHC*
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36. *Elliptic flow at high transverse momentum in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ALICE experiment*
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37. *Event-by-event mean pT fluctuations in pp and Pb–Pb collisions measured by the ALICE experiment at the LHC*
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- Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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38. *Hadron correlations in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE*
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 42. *Identified particles in pp and Pb–Pb collisions at LHC energies with the ALICE detector*
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 43. *Investigation of charm and beauty production via semileptonic decays of heavy-flavour hadrons in pp at 7 TeV and Pb–Pb at 2.76 TeV with ALICE*
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 44. *J/ψ production at forward rapidity in Pb–Pb collisions at TeV, measured $\sqrt{s_{NN}} = 2.76$ TeV with the ALICE detector,*
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 45. *Jet reconstruction and jet background classification with the ALICE experiment in Pb–Pb collisions at the LHC*
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 46. *K_0 S and Λ production in Pb–Pb collisions with the ALICE experiment*
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47. *K0sK0s correlations in 7 TeV pp collisions from the ALICE experiment at the LHC*
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Roberta Arnaldi for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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 50. *Measurement of the electromagnetic dissociation cross section of Pb nuclei at $\sqrt{s_{NN}}= 2.76$ TeV*
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 52. *Multi-strange particle measurements in 7 TeV proton–proton and 2.76 TeV Pb–Pb collisions with the ALICE experiment at the LHC*
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 55. *Production of neutral pions and eta-mesons in pp collisions measured with ALICE*
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56. *Production of nuclei and antinuclei in pp and Pb–Pb collisions with ALICE at the LHC*
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57. *Production of pions, kaons and protons in pp collisions at $\sqrt{s}=900$ GeV with ALICE at the LHC.*
 By **ALICE Collaboration** (K. Aamodt et al.)
 Eur.Phys.J.C71:1655,2011.
58. *Quarkonium production measurements with the ALICE detector at the LHC*
 Ginés Martínez García for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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59. *Rapidity and transverse momentum dependence of inclusive J/psi production in pp collisions at $\sqrt{s}=7$ TeV*
ALICE Collaboration, (K. Aamodt et al.)
 Phys.Lett.B704:442-455,2011.
60. *Resonance measurements in pp collisions with the ALICE detector and prospects for Pb–Pb*
 A Pulvirenti for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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61. *Suppression of charged particle production at large transverse momentum in central Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*
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62. *Suppression of neutral pion production at large transverse momentum measured with the ALICE experiment in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*
 G Conesa Balbastre for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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63. *Triggered di-hadron correlations in Pb–Pb collisions from the ALICE experiment,*
 Andrew M Adare for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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64. *Two-pion Bose Einstein correlations in central Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*
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65. *Two-pion Bose–Einstein correlations in Pb–Pb collisions at 2.76 TeV with ALICE*
 J Mercado for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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66. *Untriggered di-hadron correlations in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV from ALICE*
 Anthony R Timmins for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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67. *Vector meson production in pp collisions at $\sqrt{s}=7$ TeV, measured with the ALICE detector*
 A De Falco for the **ALICE Collaboration**, (full author list in Journal of Physics G: Nuclear and Particle Physics Volume 38, no. 12, 2011, 129801)
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68. *Charged-particle multiplicity and transverse energy in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with ALICE*
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69. *Elliptic flow at high transverse momentum in Pb–Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ALICE experiment*
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70. *Resonance measurements in pp collisions with the ALICE detector and prospects for Pb–Pb*
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71. *Two-pion Bose–Einstein correlations in Pb–Pb collisions at 2.76 TeV with ALICE*
 J Mercado for the **ALICE Collaboration**
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72. *Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions at root $s(NN)=2.76$ TeV*
 Aamodt, B.Abelev,... **V.Catanescu**,...Y. Zoccarato, M. Zynovyev
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73. *Two-pion Bose-Einstein correlations in central Pb-Pb collisions at root(NN)-N-S=2.76 TeV*
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74. *Measurement of $K^*(892)0$ and $K0$ mesons in Al+Al collisions at 1.9A GeV*
 X. Lopez and the **FOPI collaboration**:
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75. *Rate Capability of a High Efficiency Transition Radiation Detector*
M. Petris, M. Petrovici, D.Bartos, I. Berceanu, V. Simion, A. Radu, A. Andronic, C. Garabatos, M.Klein-Boesing, R. Simon, F. Uhlig, J.P. Wessels, A. Wilk
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76. Strip Readout RPC Based on Low Resistivity Glass Electrodes
M.Petris, M.Petrovici, V.Simion, D.Bartos, G. Caragheorgheopol, F. Dorhmann, K.D. Hildenbrand, B. Kaempfer, R. Kotte, L. Naumann, D. Stach, M.C.S. Williams, J. Wuenstenfeld
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77. *Systematics of central heavy ion collisions in the 1A GeV regime* (online reference)
 W. Reisdorf and the **FOPI collaboration**:
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78. *The CBM time-of-flight wall*
 I. Deppner, N. Herrmann, D. Gonzalez-Diaz, V. Ammosov, J. Cheng, M. Ciobanu, V. Gapienko, K.D. Hildenbrand, A. Kiseleva, M. Kiš, D. Kresan, R. Kotte, C. Huangshan, Y. Leifels, J. Fruehauf, C. Li, Y. Li, P.-A. Loizeau, L. Naumann, **M. Petrovici, M. Petris**, A. Semak, **V. Simion**, D. Stach, Y. Sun, Yu. Sviridov, Z. Tang, E. Usenko, J. Wang, Y. Wang, K. Wisniewski, J. Wuenstenfeld, L. Xu, V. Zaets, Y. Zhang, X.Zh
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79. *Toward a high granularity and high counting rate, differential readout timing MRPC*
M. Petriș, M. Petrovici, V. Simion, D. Bartoș, G. Caragheorgheopol, I. Deppner, K. Doroud, N. Herrmann, M. Kiss, P. Loizeau, Y. Zhang, M.C.S. Williams
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80. *A two-dimensional position sensitive high efficiency Transition Radiation Detector for a high counting rate environment*
D. Bartos, C. Bergmann, G. Caragheorgheopol, A. Herghelegiu, M. Klein-Boesing, M. Petris, M. Petrovici, V. Simion, J.P. Wessels
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81. *A Two-Dimension Position Sensitive High Efficiency Transition Radiation Detector for High Counting Rate Environment*
M. Petrovici, V. Simion, M. Petris, V. Aprodu, D. Bartos, G. Caragheorgheopol, V. Catanescu, A. Herghelegiu, L. Prodan, A. Radu, C. Bergmann, M. Klein-Boesing, J. P. Wessels
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82. *Alignment of the ALICE Inner Tracking System with cosmic-ray tracks*
ALICE Collaboration
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83. *CBM experiment at FAIR*
 Pawel Staszal for the **CBM Collaboration**
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84. *Charged-particle multiplicity measurement in proton–proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV with ALICE at LHC*

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85. *Charged-particle multiplicity measurement in proton–proton collisions at $\sqrt{s}=7$ TeV with ALICE at LHC*
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86. *First proton–proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $\sqrt{s}=900$ GeV*
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87. *Measurements of quarkonium production with ALICE at the LHC*
Javier Castillo (for the **ALICE Collaboration**)
J. Phys. G: Nucl. Part. Phys. 37 (2010) 094051 (6pp)
88. *Midrapidity Antiproton-to-Proton Ratio in pp Collisions at $\sqrt{s}=0.9$ and 7 TeV Measured by the ALICE Experiment*
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89. *Strangeness and heavy flavours within the ALICE experiment*
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90. *Strangeness in high multiplicity proton–proton collisions in the ALICE experiment*
Z L Matthews (for the **ALICE Collaboration**)
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91. *Study of hadronic resonances in ALICE in a first physics scenario*
A Badala, R Barbera, P La Rocca, G S Pappalardo, C Petta A Pulvirenti and F Riggi (for the **ALICE Collaboration**)
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Helene Ricaud , Alexander Kalweit and Antonin Maire (for the **ALICE Collaboration**)
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93. *The colour glass condensate framework in p+p and Pb+p interactions at the ALICE experiment*
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