








LIST OF PUBLICATIONS OF SERGEY E. SKIPETROV

SEPTEMBER 2021

(see publons.com for more information)

INVITED PAPERS & COMMENTARIES

1. S.E. Skipetrov, Localisation d'Anderson de la lumière, *Photoniques* **108**, 24–27 (2021). 
2. S.E. Skipetrov, News and views: Raman shines back, *Nature Photonics* **11**, 144–146 (2017).  SharedIt
3. S.E. Skipetrov and J.H. Page, Perspectives: Red light for Anderson localization, *New J. Phys.* **18**, 021001 (2016). 
4. S.E. Skipetrov, News and views: Localizing light with electrons, *Nature Nanotechnology* **9**, 335–336 (2014). 
5. S.E. Skipetrov, Viewpoint: Disorder makes a robust matter-wave interferometer, *Physics* **5**, 123 (2012). 
6. S.E. Skipetrov, B.A. van Tiggelen et J.H. Page, La localisation forte d'Anderson des ondes classiques, *Images de la Physique 2009*, pp. 75–80 (2010). 
7. S.E. Skipetrov, News and views: Disorder is the new order, *Nature* **432**, 285–286 (2004). 

ARTICLES IN PEER REVIEWED JOURNALS

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| 2021 | <ol style="list-style-type: none"> 8. A. Goicoechea, J.H. Page, and S.E. Skipetrov, Anisotropy of localized states in an anisotropic disordered medium, <i>Ann. Phys.</i> 168565 (2021). 9. B. Tallon, P. Roux, G. Matte, J. Guillard, J.H. Page, and S.E. Skipetrov, Ultra slow acoustic energy transport in dense fish aggregates, <i>Sci. Rep.</i> 11, 17541 (2021).  10. B.A. van Tiggelen and S.E. Skipetrov, Longitudinal modes in diffusion and localization of light, <i>Phys. Rev. B</i> 103, 174204 (2021). |
| 2020 | <ol style="list-style-type: none"> 11. A. Goicoechea, S.E. Skipetrov, and J.H. Page, Suppression of transport anisotropy at the Anderson localization transition in three-dimensional anisotropic media, <i>Phys. Rev. B</i> 102, 220201(R) (2020).  12. S.E. Skipetrov, Localization of light in a three-dimensional disordered crystal of atoms, <i>Phys. Rev. B</i> 102, 134206 (2020). 13. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Acoustic density estimation of dense fish shoals, <i>J. Acoust. Soc. Am.</i> 148, EL234 (2020).  14. M. Lott, P. Roux, L. Seydoux, B. Tallon, A. Pelat, S. Skipetrov, and A. Colombi, Localized modes on a metasurface through multiwave interactions, <i>Phys. Rev. Materials</i> 4, 065203 (2020). 15. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Mesoscopic wave physics in fish shoals, <i>AIP Advances</i> 10, 055208 (2020).  16. S.E. Skipetrov, Finite-size scaling of the density of states inside band gaps of ideal and disordered photonic crystals, <i>Eur. Phys. J. B</i> 93, 70 (2020). [Contribution to the Topical Issue “Recent Advances in the Theory of Disordered Systems”, ed. F. Iglói and H. Rieger]  SharedIt |
| 2019 | <ol style="list-style-type: none"> 17. S.E. Skipetrov and I.M. Sokolov, Intensity of waves inside a strongly disordered medium, <i>Phys. Rev. Lett.</i> 123, 233903 (2019). 18. S.E. Skipetrov and I.M. Sokolov, Transport of light through a dense ensemble of cold atoms in a static electric field, <i>Phys. Rev. A</i> 100, 013821 (2019). 19. S.E. Skipetrov and I.M. Sokolov, Search for Anderson localization of light by cold atoms in a static electric field, <i>Phys. Rev. B</i> 99, 134201 (2019). |
| 2018 | <ol style="list-style-type: none"> 20. L.A. Cobus, W.K. Hildebrand, S.E. Skipetrov, B.A. van Tiggelen, and J.H. Page, Transverse confinement of ultrasound through the Anderson transition in three-dimensional mesoglasses, <i>Phys. Rev. B</i> 98, 214201 (2018). 21. S.E. Skipetrov, Localization transition for light scattering by cold atoms in an external magnetic field, <i>Phys. Rev. Lett.</i> 121, 093601 (2018). 22. S.E. Skipetrov and I.M. Sokolov, Ioffe-Regel criterion of Anderson localization in the model of resonant point scatterers, <i>Phys. Rev. B</i> 98, 064207 (2018). |

23. S.E. Skipetrov and Y.M. Beltukov, Anderson transition for elastic waves in three dimensions, *Phys. Rev. B* **98**, 064206 (2018).
24. J.M. Escalante and S.E. Skipetrov, Level spacing statistics for light in two-dimensional disordered photonic crystals, *Sci. Rep.* **8**, 11569 (2018).   [SharedIt](#)
25. S.E. Skipetrov and A. Sinha, Time-dependent reflection at the localization transition, *Phys. Rev. B* **97**, 104202 (2018).
- 2017 26. Y.M. Beltukov and S.E. Skipetrov, Finite-time scaling at the Anderson transition for vibrations in solids, *Phys. Rev. B* **96**, 174209 (2017).
- ☞ 27. F. Riboli, F. Uchettu, G. Monaco, N. Caselli, F. Intonti, M. Gurioli, and S.E. Skipetrov, Tailoring correlations of the local density of states in disordered photonic materials, *Phys. Rev. Lett.* **119**, 043902 (2017).
28. J.M. Escalante and S.E. Skipetrov, Longitudinal optical fields in light scattering from dielectric spheres and Anderson localization of light, *Ann. Phys. (Berlin)* **529**, 1700039 (2017).
29. N. Khebbache, A. Maurice, S. Djabi, I. Russier-Antoine, Ch. Jonin, S.E. Skipetrov, and P.-F. Brevet, Second-harmonic scattering from metallic nanoparticles in a random medium, *ACS Photonics* **4**, 262–267 (2017).
30. B.A. van Tiggelen, S.E. Skipetrov, and J.H. Page, Position-dependent radiative transfer as a tool for studying Anderson localization: Delay time, time-reversal and coherent backscattering, *Eur. Phys. J. Spec. Top.* **226**, 1457 (2017). [Contribution to the Topical Collection “From Ill-condensed Matter to Mesoscopic Wave Propagation”, ed. E. Akkermans *et al.*]
- 2016 31. S.E. Skipetrov, Finite-size scaling analysis of localization transition for scalar waves in a three-dimensional ensemble of resonant point scatterers, *Phys. Rev. B* **94**, 064202 (2016).
32. S.E. Skipetrov, I.M. Sokolov, and M.D. Havey, Control of light trapping in a large atomic system by a static magnetic field, *Phys. Rev. A* **94**, 013825 (2016).
33. L.A. Cobus, S.E. Skipetrov, A. Aubry, B.A. van Tiggelen, A. Derode, and J.H. Page, Anderson mobility gap probed by dynamic coherent backscattering, *Phys. Rev. Lett.* **116**, 193901 (2016).
- 2015 34. S.E. Skipetrov and I.M. Sokolov, Magnetic-field-driven localization of light in a cold-atom gas, *Phys. Rev. Lett.* **114**, 053902 (2015).
- 2014 35. M. Candé, A. Goetschy, and S.E. Skipetrov, Transmission of quantum entanglement through a random medium, *EPL* **107**, 54004 (2014).
36. W.K. Hildebrand, A. Strybulevych, S.E. Skipetrov, B.A. van Tiggelen, and J.H. Page, Observation of infinite-range intensity correlations above, at, and below the mobility edges of the 3D Anderson localization transition, *Phys. Rev. Lett.* **112**, 073902 (2014).
37. C.P. Lapointe, P. Zakharov, F. Enderli, T. Feurer, S.E. Skipetrov and F. Scheffold, Numerical simulations of Anderson localization of terahertz waves in disordered waveguides, *EPL* **105**, 34002 (2014).
38. A. Aubry, L.A. Cobus, S.E. Skipetrov, B.A. van Tiggelen, A. Derode and J.H. Page, Recurrent scattering and memory effect at the Anderson localization transition, *Phys. Rev. Lett.* **112**, 043903 (2014).
39. S.E. Skipetrov and I.M. Sokolov, Absence of Anderson localization of light in a random ensemble of point scatterers, *Phys. Rev. Lett.* **112**, 023905 (2014).
- 2013 ☞ 40. G.M. Souche, J. Huillery, H. Pothier, P. Gandit, J.I. Mars, S.E. Skipetrov, and O. Bourgeois, Searching for thermal signatures of persistent currents in normal-metal rings, *Phys. Rev. B* **87**, 115120 (2013).
41. M. Candé and S.E. Skipetrov, Quantum versus classical effects in two-photon speckle patterns, *Phys. Rev. A* **87**, 013846 (2013).
42. A. Goetschy and S.E. Skipetrov, Euclidean random matrices and their applications in physics, [arXiv: 1303.2880](https://arxiv.org/abs/1303.2880).
- 2011 43. A. Goetschy and S.E. Skipetrov, Euclidean matrix theory of random lasing in a cloud of cold atoms, *EPL* **96**, 34005 (2011).
44. V. Ereameev, S.E. Skipetrov and M. Orszag, Quantum theory of a two-mode open-cavity laser, *Phys. Rev. A* **84**, 023816 (2011).

45. A. Goetschy and S.E. Skipetrov, Non-Hermitian Euclidean random matrix theory, *Phys. Rev. E* **84**, 011150 (2011).
46. S.E. Skipetrov and A. Goetschy, Eigenvalue distributions of large Euclidean random matrices for waves in random media, *J. Phys. A: Math. Theor.* **44**, 065102 (2011).
- 2010 47. N. Cherroret, S.E. Skipetrov and B.A. van Tiggelen, Transverse confinement of waves in three-dimensional random media, *Phys. Rev. E* **82**, 056603 (2010).
48. B. Payne, A. Yamilov and S.E. Skipetrov, Anderson localization as position-dependent diffusion in disordered waveguides, *Phys. Rev. B* **82**, 024205 (2010).
49. M.D. Birowosuto, S.E. Skipetrov, W.L. Vos, and A.P. Mosk, Observation of spatial fluctuations of the local density of states in random photonic media, *Phys. Rev. Lett.* **105**, 013904 (2010).
50. S.E. Skipetrov, J. Peuser, R. Cerbino, P. Zakharov, B. Weber and F. Scheffold, Noise in laser speckle correlation and imaging techniques, *Optics Express* **18**, 14519–14534 (2010).
51. W. Guerin, N. Mercadier, F. Michaud, D. Brivio, L.S. Froufe-Pérez, R. Carminati, V. Eremeev, A. Goetschy, S.E. Skipetrov, R. Kaiser, Towards a random laser with cold atoms, *J. Opt.* **12**, 024002 (2010).
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53. V.Yu. Fedorov and S.E. Skipetrov, Photon noise in a random laser amplifier with fluctuating properties, *Phys. Rev. A* **79**, 063822 (2009).
54. N. Cherroret and S.E. Skipetrov, Effect of interactions on the diffusive expansion of a Bose-Einstein condensate in a three-dimensional random potential, *Phys. Rev. A* **79**, 063604 (2009).
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61. S.E. Skipetrov, Quantum theory of dynamic multiple light scattering in fluctuating disordered media, *Phys. Rev. A* **75**, 053808 (2007).
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65. B.A. van Tiggelen and S.E. Skipetrov, Fluctuations of local density of states and C_0 speckle correlations are equal, *Phys. Rev. E* **73**, 045601(R) (2006).
66. S.E. Skipetrov and B.A. van Tiggelen, Dynamics of Anderson localization in open 3D media, *Phys. Rev. Lett.* **96**, 043902 (2006).
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68. J. Li, G. Dietsche, D. Iftime, S.E. Skipetrov, G. Maret, T. Elbert, B. Rockstroh, and T. Gisler, Noninvasive detection of functional brain activity with near-infrared diffusing-wave spectroscopy, *J. Biomed. Optics* **10**, 044002 (2005).

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70. S.E. Skipetrov and B.A. van Tiggelen, Dynamics of weakly localized waves, *Phys. Rev. Lett.* **92**, 113901 (2004).
71. S.E. Skipetrov, Dynamic instability of speckle patterns in nonlinear random media, *J. Opt. Soc. Am. B* **21**(1), 168–176 (2004).
72. F. Scheffold, S. Romer, F. Cardinaux, H. Bissig, A. Stradner, V. Trappe, C. Urban, S.E. Skipetrov, L. Cipelletti and P. Schurtenberger, New trends in optical microrheology of complex fluids and gels, *Progress in Colloid and Polymer Science* **123**, 141–146 (2004).
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84. A.A. Karabutov, I.M. Pelivanov, N.B. Podymova, and S.E. Skipetrov, Direct measurement of the spatial intensity distribution of light in a scattering medium, *Pis'ma Zh. Éksp. Teor. Fiz.* **70**(3), 187–191 (1999) [*JETP Lett.* **70**(3), 183–188 (1999)].
85. A.A. Karabutov, I.M. Pelivanov, N.B. Podymova, and S.E. Skipetrov, Determination of the optical characteristics of turbid media by the laser optoacoustic method, *Kvantovaya Elektronika* **29**(3), 215–220 (1999) [*Quantum Electronics* **29**(12), 1054–1059 (1999)].
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88. S.E. Skipetrov, S.S. Chesnokov, S.D. Zakharov, M.A. Kazaryan, and V.A. Shcheglov, Ponderomotive action of light in the problem of multiple scattering of light in a randomly inhomogeneous medium, *Pis'ma Zh. Éksp. Teor. Fiz.* **67**(9), 611–615 (1998) [*JETP Lett.* **67**(9), 635–639 (1998)].
89. S.E. Skipetrov and S.S. Chesnokov, Analysis, by the Monte Carlo method, of the validity of the diffusion approximation in a study of dynamic multiple scattering of light in randomly inhomogeneous media, *Kvantovaya Elektronika* **25**(8), 753–757 (1998) [*Quantum Electronics* **28**(8), 733–737 (1998)].

90. S.E. Skipetrov, S.S. Chesnokov, S.D. Zakharov, M.A. Kazaryan, N.P. Korotkov, and V.A. Shcheglov, Multiple dynamic scattering of laser radiation on light-induced jet of microparticles in suspension, *Kvantovaya Elektronika* **25**(5), 447–451 (1998) [*Quantum Electronics* **28**(5), 434–438 (1998)].
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92. S.E. Skipetrov, M.A. Kazaryan, N.P. Korotkov, and S.D. Zakharov, Multiple light-scattering probes of laser-induced particle flows in random media: Theoretical consideration, *Physica Scripta* **57**(3), 416–419 (1998).
93. M.A. Kazaryan, N.P. Korotkov, S.E. Skipetrov, and S.D. Zakharov, Light-induced dynamic backscattering of laser pulses in randomly inhomogeneous media, *J. Russian Laser Research* **19**(2), 186–189 (1998).
94. S.E. Skipetrov and S.S. Chesnokov, Statistical moments of the imaging system parameters in the turbulent atmosphere, *Optika Atmosfery i Okeana* **11**(4), 359–363 (1998) [*Atmospheric and Oceanic Optics* **11**(4), 311–315 (1998)].
95. S.E. Skipetrov and S.S. Chesnokov, Comparative analysis of two schemes of imaging through the turbulent atmosphere, *Optika Atmosfery i Okeana* **11**(7), 686–690 (1998) [*Atmospheric and Oceanic Optics* **11**(7), 90–93 (1998)].
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97. S.E. Skipetrov, Angular-temporal correlation of light in dynamically heterogeneous random media, *Europhys. Lett.* **40**(4), 381–386 (1997).
98. S.S. Chesnokov and S.E. Skipetrov, Optical resolution through atmospheric turbulence with finite outer scale, *Opt. Commun.* **141**(3,4), 113–117 (1997).
99. S.E. Skipetrov and S.S. Chesnokov, Effect of the outer scale of turbulence on the resolution of an imaging system operating in the atmosphere, *Optika Atmosfery i Okeana* **10**(7), 786–793 (1997) [*Atmospheric and Oceanic Optics* **10**(7), 490–494 (1997)].
100. S.E. Skipetrov, M.A. Kazaryan, N.P. Korotkov, and S.D. Zakharov, Diagnostics of laser-induced particle motion in dense random media using temporal field correlation, *J. Moscow Phys. Soc.* **7**(4), 411–420 (1997).
101. S.E. Skipetrov and S.S. Chesnokov, Feasibility of localization and diagnostics of dynamic inhomogeneities in strongly scattering turbid media, *Optika Atmosfery i Okeana* **10**(12), 1493–1499 (1997) [*Atmospheric and Oceanic Optics* **10**(12), 937–941 (1997)].
- 1996 102. S.E. Skipetrov and R. Maynard, Dynamic multiple scattering of light in multilayer turbid media, *Phys. Lett. A* **217**(2,3), 181–185 (1996).

INVITED TALKS AT CONFERENCES, SYMPOSIA, ETC.

- 2021 103. S.E. Skipetrov, Disorder and topology in planar arrays of atoms, CoScaLi 2021: Workshop on collective scattering of light (Porquerolles, France, September 12–17, 2021).
104. S.E. Skipetrov, Disorder and topology in planar arrays of resonant scatterers, EOS Annual Meeting (EOSAM) 2021. Topical Meeting “Waves in Complex Photonic Media” (Online talk, Rome, Italy, September 13–17, 2021).
- 2020 105. S.E. Skipetrov, [Anderson localization of light by cold atoms](#), School on “Anderson Localization: Landscape Theory, Experiments with Ultracold Atoms” organized by Simons Collaboration on Localization of Waves. (Initially planned in Arcachon, France. Took place [online](#) due to Covid-19 pandemic, October 7–9, 2020).
106. S.E. Skipetrov, Localization of light in 3D by point scatterers, International conference “Localisation 2020” (Initially planned in Sapporo, Japan. Took place [online](#) due to Covid-19 pandemic, August 24–29, 2020).
107. S.E. Skipetrov, Second harmonic generation in the regime of Anderson localization, Workshop on “Complex Materials for Nonlinear Optics”—CMNO 2020 (ETH Hönggerberg, Zürich, Switzerland, January 29–31, 2020).
- 2019 108. S.E. Skipetrov, Intensity of waves inside a strongly disordered medium, Workshop “Atoms and Photons

- Nice 2019” (Nice, France, November 5–7, 2019).
109. S.E. Skipetrov, Anderson localization of vector waves, International School and Conference on Disorder in Materials Science—DisoMAT 2019 (Potsdam, Germany, September 24–26, 2019).
110. S.E. Skipetrov, Anderson localization of vector waves, Conference “Waves Côte d’Azur”, Topical meeting “Wave phenomena in disordered systems” (Nice, France, June 4–7, 2019).
111. S.E. Skipetrov, Anderson localization of light, Symposium “Soft Matter, Bioinspiration and Photonics” (Messkirch Castle, Germany, May 29, 2019).
- 2018 112. S.E. Skipetrov, Anderson localization of vector waves, International workshop “Disordered systems: from localization to thermalization and topology” (Daejeon, South Korea, September 3–7, 2018).
113. S.E. Skipetrov, Localization phase diagram for light scattering by cold atoms in a strong magnetic field, CoScaLi V: Workshop on collective scattering of light (Fernando de Noronha, Brazil, August 27–31, 2018).
114. S.E. Skipetrov, Anderson localization of classical waves, EOS Topical Meeting on Waves in Complex Photonics Media: Fundamentals and Device Applications (Anacapri, Capri, Italy, June 4–7, 2018).
115. S.E. Skipetrov, Anderson localization of classical waves, Summer school Complex2018 “Transport, mesoscopy and imaging of waves in complex media ” (Cargèse, Corsica, France, May 28–June 1, 2018).
- 2017 116. S.E. Skipetrov, Anderson localization of vector waves, Workshop “New aspects of localization” (IRSAMC, Toulouse, France, November 27–28, 2017).
117. S.E. Skipetrov, [Anderson transitions in Euclidean random matrix models](#), Workshop “Waves and imaging in random media” (ICERM, Providence RI, USA, September 25–29, 2017).
118. S.E. Skipetrov, Anderson transitions for light and sound in 3D, International workshop “Discrete, nonlinear and disordered optics—DINDOS17” (Dresden, Germany, May 8–12, 2017).
119. S.E. Skipetrov, Anderson localization of classical waves in 3D, Summer school “Spatio-temporal control of waves: From imaging to sensing 2017” (Cargèse, Corsica, France, April 24–28, 2017).
120. S.E. Skipetrov, Scaling analysis of localization transition for light in a 3D atomic system, The 47th Winter Colloquium on the Physics of Quantum Electronics—PQE 2017 (Snowbird, Utah, USA, January 8–13, 2017).
- 2016 121. S.E. Skipetrov, Quantum optics of disordered media, Quantum engineering science and technologies symposium—QuESTS (Singapore, November 14–18, 2016).
122. S.E. Skipetrov, Scaling analysis of localization transition for classical waves, 10th International workshop on disordered systems—IWDS10 (Brescia, Italy, June 27–July 1, 2016).
123. S.E. Skipetrov, Localization of light in a cloud of cold atoms in magnetic field, CoScaLi IV: Workshop on collective scattering of light (Ubatuba, Brazil, May 9–12, 2016).
124. S.E. Skipetrov, Nonuniversality in mesoscopic wave physics, Roger Maynard memorial workshop (Grenoble, France, March 10–11, 2016).
- 2015 125. S.E. Skipetrov, Anderson localization and random lasing in a Euclidean random matrix model, NETADIS Conference “Statistical physics approaches to networks across disciplines” (London, UK, October 20–23, 2015).
126. S.E. Skipetrov, L.A. Cobus, W.K. Hildebrand, and J.H. Page, Ultrasound at the Anderson localization transition, The 15th international conference on phonon scattering in condensed matter “Phonons 2015” (Nottingham, UK, July 12–17, 2015).
127. S.E. Skipetrov, Localization of light in a cold-atom gas, 587th Wilhelm and Else Heraeus seminar “From photonics to polaritonics: non-equilibrium transport in complex media, photonic crystals and disordered nano-structures” (Bad Honnef, Germany, April 19–23, 2015).
128. S.E. Skipetrov, Near-field effects compromise Anderson localization of light, Discussions on nano & mesoscopic optics—DINAMO (El Chaltén, Patagonia, Argentina, April 8–12, 2015).
- 2014 129. S.E. Skipetrov, Euclidean random matrices for waves in random media, Research workshop of the Israel science foundation “Non-hermitean random matrices: 50 years after Ginibre” (Yad Hashmona, Judean Hills, Israel, October 22–27, 2014).
130. S.E. Skipetrov, Anderson localization of light? International workshop “Weak chaos and weak turbulence”

(Dresden, Germany, February 3–7, 2014).

- 2013 131. S.E. Skipetrov, Anderson localization of vector waves, 546th Wilhelm and Else Heraeus seminar “Light in disordered photonic media” (Bad Honnef, Germany, December 2–4, 2013).
132. S.E. Skipetrov, Emission and capture of light in random media: Euclidean random matrix theory, Advanced workshop on nonlinear photonics, disorder and wave turbulence (Trieste, Italy, July 15–19, 2013).
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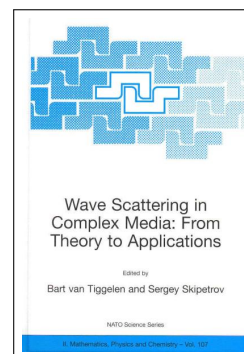
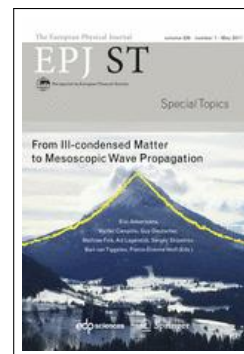
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