Invited papers & commentaries


Articles in peer reviewed journals

2019


2018


2017


2016


69. S.E. Skipetrov and M.A. Kazaryan, Diffusion-wave spectroscopy of light-induced fluxes, *Optika Atmosfery*


**Invited talks at conferences, symposia, etc.**

2019


2018

95. 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).

96. 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).


2017


2016

104. S.E. Skipetrov, Quantum optics of disordered media, Quantum engineering science and technologies symposium—QuESTS (Singapore, November 14–18, 2016).

105. 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).

106. 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).


2015


10. S.E. Skipetrov, Localization of light in a cold-atom gas, 58th 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).

11. S.E. Skipetrov, Near-field effects compromise Anderson localization of light, Discussions on nano & meso-
scopic optics—DINAMO (El Chaltén, Patagonia, Argentina, April 8–12, 2015).

2014
12. S.E. Skipetrov, Euclidean random matrices for waves in random media, Research workshop of the Israel
science foundation “Non-hermitian random matrices: 50 years after Ginibre” (Yad Hashmona, Judean
Hills, Israel, October 22–27, 2014).

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

2013
14. 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).

15. 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).

16. S.E. Skipetrov, Quantum optical resources for imaging and wave control in random media, International
workshop “Controlling the propagation of waves in complex media: from shaping wave fields to designing
smart materials” (Cargèse, Corsica, France May 27–June 1, 2013).

2012
17. S.E. Skipetrov, Euclidean random matrix theory for waves in open random media, International workshop
“Wave chaos from the micro- to the macroscale” (Dresden, Germany, October 22–26, 2012).

18. S.E. Skipetrov, Euclidean random matrices for waves in random media, Workshop “Waves and imaging
in complex media” (Herklikion, Greece, June 11–15, 2012).

2011
19. S.E. Skipetrov and A. Goetschy, Euclidean random matrix theory of random lasing, Workshop “Waves in
correlated disorder” (Paris, France, November 30–December 2, 2011).

20. S.E. Skipetrov and A. Goetschy, Euclidean random matrix theory of random lasers, Physics@FOM Veld-

2010
21. S.E. Skipetrov and A. Goetschy, Euclidean random matrices for waves in random media, VI Brunel
Workshop on Random Matrix Theory (Brunel University, West London, UK, December 17–18, 2010).

22. S.E. Skipetrov, Quantum optics of random media, Nice Days of Waves in Complex Media. Special Session
on Random Lasing (Nice, France, June 7–9, 2010).

23. S.E. Skipetrov, Wave dynamics in open disordered media, Second meeting of the GDR “Quantum Dy-
namics” (Dijon, France, March 24–26, 2010).

24. S.E. Skipetrov, Self-consistent theory of Anderson localization, The 40th Winter Colloquium on the
Physics of Quantum Electronics—PQE 2010 (Snowbird, Utah, USA, January 3–7, 2010).

2009
Physics Days” organized by the Grenoble Center for Theoretical Physics—CTPG (Grenoble, France,
November 24–25, 2009).

26. S.E. Skipetrov, Quantum optics of random media, Annual Meeting of the Optical Society of America
“Frontiers in Optics” (San Jose, California, USA, October 11–15, 2009).

2007
27. S.E. Skipetrov, N. Cherroat, and B.A. van Tiggelen, Anderson localization in open random media, Topical
Meeting of the Optical Society of America “Photonic Metamaterials: From Random to Periodic—META
2007” (Jackson Hole, USA, June 4–7, 2007).

2006
28. S.E. Skipetrov, and B.A. van Tiggelen, Anderson localization of light, Summer school “Imaging, Commu-
nication, and Disorder” (Cargèse, Corsica, June 12–17, 2006).

Workshop—LPHYS’06 (Lausanne, Switzerland, July 24–28, 2006).

2005
30. S.E. Skipetrov, Dynamics of light in strongly scattering random media: breakdown of diffusion, Anderson
localization and random lasers, International Conference on Coherent and Nonlinear Optics—ICONO
2005 (St. Petersburg, Russia, May 11–15, 2005).

2004
31. S.E. Skipetrov and B.A. van Tiggelen, Signatures of Anderson localization in pulse transmission through

LIST OF PUBLICATIONS OF SERGEY E. SKIPETROV — PAGE 6 OF 11
disordered media, 13th International Laser Physics Workshop—LPHYS’04 (ICTP, Trieste, Italy, July 12–16, 2004).


134. S.E. Skipetrov, Instabilities and chaos in nonlinear optics of disordered media, NATO Advanced Study Institute “Wave Scattering in Complex Media: From Theory to Applications” (Cargèse, France, June 10–22, 2002).

135. S.E. Skipetrov, Temporal fluctuations of waves in nonlinear disordered media, Ecole “Propagation des Ondes en Milieux Non-linéaires et Diffusifs” (Cargèse, France, September 3–9, 2000).


PEER-REVIEWED CONFERENCE PROCEEDINGS


Regular presentations at conferences, symposia, etc.


2012 159. S.E. Skipetrov and I.M. Sokolov, Spontaneous decay of collective states in large ensembles of cold atoms (poster), *Workshop “Recent developments in wave propagation and imaging in complex media” (Paris, France, November 7–9, 2012).*


167. S.E. Skipetrov, N. Cherroret and B.A. van Tiggelen, Transverse confinement of waves in 3D random media


174. S.E. Skipetrov, Interference effects in disordered media are amplified with time (poster), International Meeting on “Mesoscopic Physics with Matter and Waves” (Laboratoire de Physique des Solides, Orsay, France, March 21–22, 2005).

175. S.E. Skipetrov, Multiple scattering of light in nonlinear disordered media, 13th International Laser Physics Workshop—LPHYS’04 (ICTP, Trieste, Italy, July 12–16, 2004).

176. S.E. Skipetrov, Wireless communications in disordered media with diffuse waves (internet report), Saratov Fall Meeting: International School for Young Scientists and Students on Optics, Laser Physics and Biophysics (Saratov, Russia, October 7–10, 2003).

177. S.E. Skipetrov, Instabilité de speckle en milieux désordonnés et non linéaires, Colloque “Propagation dans des Milieux Hétérogènes: Diffusion et Conditions aux Limites” (ESPCI, Paris, France, Mai 10, 2001).


179. S.E. Skipetrov, Temporal fluctuations and instabilities of waves in nonlinear disordered media (poster), NATO Advanced Study Institute “Photonic Crystals and Light Localization” (Crete, Greece, June 18–30, 2000).


181. S.E. Skipetrov, Multiple scattering of light in random media with complex dynamic structure, XI School-Conference on Diffraction and Propagation of Waves (Moscow State University, Moscow, January 12–15, 1998).


184. S.E. Skipetrov, S.S. Chesnokov, I.V. Meglinsky, and V.V. Tuchin, Diffusing-wave spectroscopy of flows (poster), XVI International Conference on Coherent and Nonlinear Optics—ICONO’98 (Moscow, Russia, June 29–July 3, 1998).

185. S.E. Skipetrov and S.S. Chesnokov, Cross-correlations in dynamic multiple scattering of light (poster), 17th General Conference of the Condensed Matter Division, European Physical Society and 6èmes Journées de
1997 186. S.E. Skipetrov, Temporal autocorrelation function of multiple-scattered light in a multilayer turbid medium, International Conference of Students and Postgraduates on Fundamental Sciences “Lomonosov-97” (Moscow State University, Moscow, April 8–10, 1997).

187. S.E. Skipetrov, Role of the outer scale of turbulence in problems of imaging through turbulent media, International Conference of Students and Postgraduates on Fundamental Sciences “Lomonosov-97” (Moscow State University, Moscow, April 8–10, 1997).

188. S.E. Skipetrov and R. Maynard, Diffusing wave spectroscopy in dynamically heterogeneous media, 2nd GR-I International Conference on New Laser Technologies and Applications (Olympia, Greece, June 1–4, 1997).

189. S.E. Skipetrov and S.S. Chesnokov, Comparison of several schemes of imaging through turbulent atmosphere, IV Symposium “Atmospheric and Oceanic Optics” (Tomsk, Russia, June 10–13, 1997).

190. S.E. Skipetrov and S.S. Chesnokov, Feasibility of localization and diagnostics of dynamic inhomogeneities in strongly scattering turbid media, IV Symposium “Atmospheric and Oceanic Optics” (Tomsk, Russia, June 10–13, 1997).

191. I.V. Meglinskii and S.E. Skipetrov, Diffusing-wave spectroscopy as a type of the optical correlation spectroscopy, Scientific School on Optics, Laser Physics, and Optoelectronics “Problems of Optical Physics” (Saratov, Russia, November 1997).

192. S.E. Skipetrov, Imaging through atmospheric turbulence (poster), Memorial Conference of Young Scientists on Occasion of 70th Anniversary of Academician R.V. Khokhlov (Moscow State University, Moscow, October 15, 1996).

Edited books & special issues


Book chapters
