

Olga ALEXANDROVA

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Born: January 6, 1978
 39 years old, married, 2 children
 nationality RU/FR

Research Interests

Turbulence in astrophysical collisionless plasmas : in-situ measurements in the solar wind and planetary magnetospheres, theoretical and numerical modeling.

Positions Held

2009–present Associate Astronomer at Observatory of Paris, France.
 2007–2009 Post-doc at University of Cologne, Germany.
 2005–2007 Post-doc at CNES/LESIA, Observatory of Paris.
 2002–2005 Doctoral Fellow at UPMC/LESIA, Observatory of Paris, France.

Education

2002–2005 Ph.D. in Plasma Physics (with Honors), UPMC, France, Thesis Advisers: A. Mangeney and M. Maksimovic, title: “Turbulence MHD dans la magnétogaine terrestre en aval des chocs quasi-perpendiculaires”
 2001–2002 M.A. *Plasma Physics*, École Polytechnique, France.
 2000–2001 International Program, École Polytechnique, France.
 1999–2003 M.A. in *Geophysics* (with Honors), St-Petersburg State University, Russie.
 1995–1999 B.A. in *Physics* (with Honors), St-Petersburg State University, Russie.

Community Service

International level

1. *Referee for Astrophysical Journal, Astrophysical Journal Letters, Annales Geophysicae, Geophysical Research Letters, Journal of Geophysical Research, Nonlinear Processes in Geophysics, Philosophical Transactions of the Royal Society, Proceedings of the 12th Solar Wind conference, Proceedings of the 15th Cluster Workshop and the CAA School.*
2. *Co.-P.I. de l'instrument STAFF/Cluster.*
3. *P.I. of the project “Study of the dissipation range of solar wind turbulence” at ESA, The Cluster Guest Investigator Programme 2015.*
4. *Co.I. of the instrument RPW/Solar Orbiter.*
5. *Co.I. of the instrument SORBET/PWI/MMO/BepiColombo.*

National level

1. 09/2010–02/2013: deputy director of the *International Centre for Scientific Workshops* of Paris Observatory (organisation of 15-17 workshops par year).
2. since 02/2013: Scientific director of the *International Centre for Scientific Workshops* of Paris Observatory (17-20 workshops par year)
3. 2009–2016 : leader of the projet “Turbulence et dissipation dans un plasma spatial” at INSU.
4. since 11/2015: Member of section CNAP, scientific secretary.

Organization of conferences

1. International workshop in honor of Andre Mangeney “Space plasmas and Astrophysics”, Observatoire de Paris, Meudon, 11–14/09/2007, Member of the SOC and of the LOC;
2. Session on “Turbulence”, 17th Cluster workshop, Uppsala, Sweden, 12–15/05/2009, Member of the SOC;
3. International workshop “Turbulent cascade in the solar wind: anisotropy and dissipation”, CIAS/Observatoire de Paris, Meudon, 17–21/09/2012 (co-organised with Roland Grappin, Vincenzo Carbone et Luca Sorriso-Valvo), Chair of the SOC and of the LOC;
4. “Solar Wind Turbulence” Meeting, Kennebunkport, Maine, USA, 4–7/06/2013 , Member of the SOC;
5. “Préparation de AO ESA/M4”, CIAS/Observatoire de Paris, 24/06/2014, Chair of the LOC;
6. “THOR (Turbulent Heating Observer) kick-off meeting”, CIAS/Observatoire de Paris, 9–10/10/2014, Chair of the LOC;
7. Session “ Turbulence and Instabilities in Space Plasmas”, EGU General Assembly 2015, Member of the SOC
(<http://meetingorganizer.copernicus.org/EGU2015/session/17659>);
8. Meudon Turbulent workshop 2015 “Energy Cascade and Dissipation in Astrophysical Turbulent Plasmas”, CIAS, Observatoire de Paris, 26–29 May 2015, co-organized with Arakel Petrosyan, Thierry Passot and Petr Hellinger, Chair of the SOC and of the LOC;
9. Session “ Turbulence and Instabilities in Space Plasmas”, EGU General Assembly 2016, Member of the SOC
(<http://meetingorganizer.copernicus.org/EGU2016/session/20709>);
10. Helios mini-workshop, Institut de Géophysique, Université de Cologne, Allemagne, 27–29 juin 2016, Member of the SOC;
11. Session “ Turbulence and Heating in Space Plasmas ”, EGU General Assembly 2017, Member of the SOC
(<http://meetingorganizer.copernicus.org/EGU2017/session/24850>).
12. Ecole de Physique des Houches, “From laboratories to astrophysics: the expanding universe of plasma physics”, 2-12 May 2017, Les Houches, France, Member of the SOC and of the LOC (<http://ipag.osug.fr/~lesurg/plasmas2017/>)
13. International Workshop on Solar, Heliospheric & Magnetospheric Radioastronomy : The Legacy of Jean-Louis Steinberg (1922–2016), Paris Observatory, Meudon, 6-10 November 2017, Member of the LOC (<https://jlsworkshop.sciencesconf.org/>)

Theaching

B.A. Level

- 2004–2005 Lectures and classes in mathematics, at IUT/University of Versailles Saint-Quentin-en-Yvelines.
- 2009–2013 Classical mechanics at UPMC, classes and oral examinations.
- 2014–2015 Electromagnetism at UPMC, classes and oral examinations.
- 2017–2018 Fundamentals for astronomy and astrophysics at Observatory of Paris, France.

M.A. Level

- 03/2007 Space missions, Observatory of Paris, France.
- 2008–2009 Student seminars, Institute of Geophysics, University of Cologne, Germany.
- 02/2011 Space missions, Observatory of Paris, France.
- 2011–2018 Spectral analysis of in-situ magnetic field measurements, Paris-Sud University, France.

Advanced courses on turbulence in space plasmas

- October 2014 *Space plasma turbulence from MHD to electron scales*, “Turboplasmas School”, Department of Physics & Astronomy, University of Florence, Arcetri, Italy
- April 2015 *Turbulent spectra in space plasmas*, Ecole de Physique des Houches “Turbulence, magnetic fields and self organization in laboratory and astrophysical plasmas”, 23 March–3 April 2015, Les Houches, France
- July 2016 *Solar wind turbulence*, Summer School “Advances in geophysical and astrophysical turbulence”, 26th July - 5 August 2016, Cargèse, France
- May 2017 *Solar wind turbulence*, Ecole de Physique des Houches, “From laboratories to astrophysics: the expanding universe of plasma physics”, 2–12 May 2017, Les Houches, France

Language Knowledge

Russian (native), French (fluent), English (fluent), German (elementary)

Publications in refereed journals

1. L. Rezeau, F. Sahraoui, E. d’Humières, G. Belmont, T. Chust, N. Cornilleau-Wehrin, L. Mellul, **O. Alexandrova**, E. Lucek, P. Robert, P. Decreau, P. Canu, I. Dandouras, *A case study of low-frequency waves at the magnetopause*, *Annales Geophysicae*, 19, 1463, 2001
2. V. Semenov, **O. Alexandrova**, N. Erkaev, S. Muhlbachler, H. Biernat, *A simple model of magnetopause erosion as a consequence of pile-up process and bursty reconnection*, *Int. J. Geomag. Aeronomy*, 3, 109, 2002
3. **O. Alexandrova**, A. Mangeney, M. Maksimovic, C. Lacombe, N. Cornilleau-Wehrin, E. Lucek, P. Decreau, J. M. Bosqued, P. Travnicek, A. N. Fazakerley, *Cluster observations of finite amplitude Alfvén waves and small scale magnetic filaments downstream of a quasi-perpendicular shock*, *J. Geophys. Res.*, 109, A05207, 2004
4. **O. Alexandrova**, A. Mangeney, M. Maksimovic, N. Cornilleau-Wehrin, J. M. Bosqued, M. Andre, *Alfvén vortex filaments observed by Cluster in the magnetosheath downstream of perpendicular shock*, *J. Geophys. Res.*, 111, A12208, 2006
5. E. M. Dubinin, M. Maksimovic, N. Cornilleau-Wehrin, D. Fontaine, P. Travnicek, A. Mangeney, **O. Alexandrova**, K. Sauer, M. Fraenz, I. Dandouras, E. Lucek, A. Fazakerley, A. Balogh, and M. Andre, *Coherent Whistler Emissions in the Magnetosphere. Cluster Observations*, *Annales Geophysicae*, 25, 303, 2007
6. A. Samsonov, **O. Alexandrova**, C. Lacombe, M. Maksimovic, *Proton temperature anisotropy in the magnetosheath: comparison of MHD modeling with CLUSTER data*, *Annales Geophysicae*, 25, 1157, 2007
7. **O. Alexandrova**, V. Carbone, P. Veltri, L. Sorriso-Valvo, *Solar wind turbulent spectra and role of Hall effect. Cluster observations.*, *Planetary and Space Science*, 55, 2224, 2007
8. **O. Alexandrova**, V. Carbone, L. Sorriso-Valvo, P. Veltri, *Small Scale Energy Cascade of the Solar Wind Turbulence*, *The Astrophysical Journal*, Volume 674, Issue 2, 1153, 2008 (arXiv:0710.0763)
9. **O. Alexandrova**, *Solar wind versus magnetosheath turbulence and Alfvén vortices*, *Non-linear Processes in Geophysics*, Volume 15, Issue 1, 95, 2008
10. **O. Alexandrova** and J. Saur, *Alfvén vortices in Saturn’s magnetosheath: Cassini observations*, *Geophysical Research Letters*, Volume 35, Issue 15, CiteID L15102, 2008
11. **O. Alexandrova**, C. Lacombe, A. Mangeney, *Spectra and anisotropy of magnetic fluctuations in the Earth’s magnetosheath: Cluster observations*, *Annales Geophysicae*, 26, 3585, 2008, (arXiv:0810.0675)
12. **O. Alexandrova**, J. Saur, C. Lacombe, A. Mangeney, Mitchell, J.; Schwartz, S. J.; Robert, P., *Universality of Solar-Wind Turbulent Spectrum from MHD to Electron Scales*, *Physical Review Letters*, vol. 103, Issue 16, id. 165003, 10/2009 (arXiv:0906.3236).
13. Chen, C. H. K.; Horbury, T. S.; Schekochihin, A. A.; Wicks, R. T.; **Alexandrova, O.**; Mitchell, J., *Anisotropy of Solar Wind Turbulence between Ion and Electron Scales*, *Physical Review Letters*, vol. 104, Issue 25, id. 255002, 06/2010
14. G. Zimbardo, A. Greco, L. Sorriso-Valvo, S. Perri, Z. Vörös, G. Aburjania, Kh. Chargazia, **O. Alexandrova**, *Magnetic turbulence in the geospace environment*, *Space Science Reviews*, Volume 156, Issue 1-4, pp. 89-134, 10/2010

15. S. Bourouaine, **O. Alexandrova**, E. Marsch and M. Maksimovic, *On spectral breaks in the power spectra of magnetic fluctuations in fast solar wind between 0.3 and 0.9 AU*, The Astrophysical Journal, Volume 749, Issue 2, article id. 102, 2012
16. M. Berthomier, A. N. Fazakerley, C. Forsyth, R. Pottellette, **Alexandrova, O.**, A. Anastasiadis, A. Aruliah, P.-L. Blelly, C. Briand, R. Bruno, P. Canu, B. Cecconi, T. Chust, I. Daglis, J. Davies, M. Dunlop, D. Fontaine, V. Génot, B. Gustavsson, G. Haerendel, M. Hamrin, M. Hapgood, S. Hess, D. Kataria, K. Kauristie, S. Kemble, Y. Khotyaintsev, H. Koskinen, L. Lamy, B. Lanchester, P. Louarn, E. Lucek, R. Lundin, M. Maksimovic, J. Manninen, A. Marchaudon, O. Marghitsu, G. Marklund, S. Milan, J. Moen, F. Mottez, H. Nilsson, N. Ostgaard, C. J. Owen, M. Parrot, A. Pedersen, C. Perry, J.-L. Pinçon, F. Pitout, T. Pulkkinen, I. J. Rae, L. Rezeau, A. Roux, I. Sandahl, I. Sandberg, E. Turunen, J. Vogt, A. Walsh, C. E. J. Watt, J. A. Wild, M. Yamauchi, P. Zarka, and I. Zouganelis. *Alfvén: magnetospher-ionosphere connection explorers*. *Experimental Astronomy*, 33:445–489, April 2012.
17. **Alexandrova, O.**, C. Lacombe, A. Mangeney, R. Grappin and M. Maksimovic, *Solar wind turbulent spectrum at plasma kinetic scales*, The Astrophysical Journal, 760, 121, doi:10.1088/0004-637X/760/2/121, 2012
18. T. Dudok de Wit, **O. Alexandrova**, I. Furno, L. Sorriso-Valvo, G. Zimbardo, *Methods for characterising microphysical processes in plasmas*, Space Science Reviews, chapitre dans “Microphysics of plasmas” (édition *Springer*), Volume 178, Issue 2-4, pp. 665-693, 10/2013
19. **O. Alexandrova**, C. Chen, L. Sorriso-Valvo, T. Horbury, S. Bale, *Solar wind turbulence and the role of ion instabilities*, Space Science Reviews, Springer, chapitre dans “Microphysics of plasmas” (édition *Springer*), Volume 178, Issue 2-4, pp. 101-139, 10/2013
20. **O. Alexandrova**, S. D. Bale, C. Lacombe, *Comment on “Evidence of a Cascade and Dissipation of Solar-Wind Turbulence at the Electron Gyroscale”*, Physical Review Letters, vol. 111, Issue 14, id. 149001, 10/2013
21. M. von Papen, J. Saur, **O. Alexandrova**, *Turbulent magnetic field fluctuations in Saturn’s magnetosphere*, Journal of Geophysical Research: Space Physics, Volume 119, Issue 4, pages 2797-2818, April 2014
22. C. Lacombe, **O. Alexandrova**, L. Matteini, A. Mangeney, N. Cornilleau-Wehrin, Y. de Conchy and M. Maksimovic, *Whistler mode waves and the electron heat flux in the solar wind: Cluster observations*, The Astrophysical Journal, Volume 796, Issue 1, article id. 5, 11 pp. (2014).
23. D. Jovanovic, **O. Alexandrova**, M. Maksimovic, *Theory of coherent electron-scale magnetic structures in space plasma turbulence*, Phys. Scr. 90 (2015) 088002.
24. O. W. Roberts, X. Li, **O. Alexandrova**, B. Li, *Observation of an MHD Alfvén vortex in the slow solar wind*, Journal of Geophysical Research: Space Physics, Volume 121, Issue 5, pp. 3870-3881 (05/2016), arXiv:1602.07410
25. S. Lion, **O. Alexandrova** and A. Zaslavsky, *Coherent events and spectral shape at ion kinetic scales in the fast solar wind turbulence*, The Astrophysical Journal, Volume 824, Issue 1, article id. 47, 13 pp. (06/2016), arXiv:1602.07213.
26. D. Perrone, **O. Alexandrova**, A. Mangeney, M. Maksimovic, C. Lacombe, V. Racoto, J. C. Kasper, D. Jovanovic, *Compressible coherent structures at ion scales in the slow solar wind*, The Astrophysical Journal, Volume 826, Issue 2, article id. 196, 19 pp. (08/2016), arXiv:1604.07577.

27. H. Breuillard, E. Yordanova, A. Vaivads and **O. Alexandrova**, The Effects of Kinetic Instabilities on Small-scale Turbulence in Earth's Magnetosheath, *The Astrophysical Journal*, Volume 829, Issue 1, article id. 54, 7 pp. (09/2016).
28. Vaivads, A.; Retino, A.; Soucek, J.; Khotyaintsev, Yu. V.; Valentini, F.; Escoubet, C. P.; **O. Alexandrova**, André, M.; Bale, S. D.; Balikhin, M.; Burgess, D.; Camporeale, E.; Caprioli, D.; Chen, C. H. K.; Clacey, E.; Cully, C. M.; de Keyser, J.; Eastwood, J. P.; Fazakerley, A. N.; Eriksson, S.; Goldstein, M. L.; Graham, D. B.; Haaland, S.; Hoshino, M.; Ji, H.; Karimabadi, H.; Kucharek, H.; Lavraud, B.; Marcucci, F.; Matthaeus, W. H.; Moore, T. E.; Nakamura, R.; Narita, Y.; Nemecek, Z.; Norgren, C.; Opgenoorth, H.; Palmroth, M.; Perrone, D.; Pincon, J.-L.; Rathsmann, P.; Rothkaehl, H.; Sahraoui, F.; Servidio, S.; Sorriso-Valvo, L.; Vainio, R.; Voros, Z.; Wimmer-Schweingruber, R. F., Turbulence Heating ObserveR - satellite mission proposal, *Journal of Plasma Physics*, Volume 82, Issue 5, article id. 905820501, 16 pp., (10/2016).
29. P. Kajdic, **O. Alexandrova**, M. Maksimovic, C. Lacombe and A. N. Fazakerley, Suprathermal electron strahl widths in the presence of narrow-band whistler waves in the solar wind, *The Astrophysical Journal*, Volume 833, Issue 2, article id. 172, 11 pp. (12/2016), arXiv:1701.04819.
30. L. Matteini, **O. Alexandrova**, C. H. K. Chen and C. Lacombe, Electric and magnetic spectra from MHD to electron scales in the magnetosheath, *Monthly Notices of the Royal Astronomical Society*, Volume 466, Issue 1, p.945-951, 04/2017
31. C. Lacombe, **O. Alexandrova**, L. Matteini, Anisotropies of the Magnetic Field Fluctuations at Kinetic Scales in the Solar Wind: Cluster Observations, *The Astrophysical Journal*, Volume 848, Issue 1, article id. 45, 13 pp. (10/2017), arXiv:1710.02341.
32. D. Perrone, **O. Alexandrova**, O. W. Roberts, S. Lion, C. Lacombe, A. Walsh, M. Maksimovic, I. Zouganelis, Coherent structures at ion scales in fast solar wind: Cluster observations, *The Astrophysical Journal*, in press (2017), arXiv:1709.09644.
33. O. Roberts, **O. Alexandrova**, P. Kajdic, L. Turc, D. Perrone, P. Escoubet, A. Walsh, Variability Of The Magnetic Field Power Spectrum In The Solar Wind At Electron Scales, *Astrophysical Journal*, in press (2017), arXiv:1710.05089 [physics.plasm-ph].

Refereed proceedings

34. **O. Alexandrova**, J. Saur, C. Lacombe, A. Mangeney, J. Mitchell, S. J. Schwartz, R. Grappin, P. Robert, Solar wind turbulent spectrum from MHD to electron scales, TWELFTH INTERNATIONAL SOLAR WIND CONFERENCE. AIP Conference Proceedings, Volume 1216, pp. 144-147, 2010 (arXiv:0912.2668)
35. Issautier, K.; Mangeney, A.; **Alexandrova, O.**, Spectrum of the electron density fluctuations: preliminary results from Ulysses observations, TWELFTH INTERNATIONAL SOLAR WIND CONFERENCE. AIP Conference Proceedings, Volume 1216, pp. 148-151, 2010

Non-refereed proceedings

36. **O. Alexandrova** and A. Mangeney, *Stationary field-aligned filament: model based on Cluster observations*, proceedings of "Problems of Geocosmos-V", 132-135, 2004

37. **O. Alexandrova**, A. Mangeney and M. Maksimovic, *Incompressible magnetic vortices: magnetosheath Cluster observations*, proceedings of "Problems of Geocosmos-VI", 3-6, 2006

Space mission proposal (ESA)

1. TOR, 2013, Call for a Small-size mission opportunity in ESA's Science Programme (S1).
2. THOR, 2015, Call for a Medium-size mission opportunity in ESA's Science Programme for a launch in 2025 (M4).

Invited talks

1. **O. Alexandrova**, *Solar wind versus magnetosheath turbulence. Observations of Alfvén vortices*, The Sixth International Workshop on Nonlinear Waves and Turbulence in Space Plasmas, Kyushu University, Japon, 9 -13 oct. 2006
2. V. Carbone, **O. Alexandrova**, S. Servidio, L. Sorriso, P. Veltri *Small-scale magnetic turbulence in the solar wind*, SH12A-01, AGU Fall Meeting, San Francisco, USA, 11–15 déc. 2006
3. **O. Alexandrova**, *Multiscale phenomena of the Earth magnetosheath*, Workshop on Complexity in plasma and geospace systems, Geilo, Norway, mars 4–9, 2007
4. **O. Alexandrova**, A. Mangeney, *Discovery of Alfvén vortices in the plasma turbulence of the Earth’s magnetosheath*, AGU Joint Assembly, Acapulco, Mexico, 22–25 mai 2007
5. **O. Alexandrova**, *Statistical properties of plasma turbulence in presence of Alfvén vortices*, Alfvén 2007 Workshop on Space Environment Turbulence 17–21 sep. 2007, Warsaw, Poland
6. **O. Alexandrova**, 15th Cluster Workshop & Cluster Active Archive School, Puerto Santiago, Tenerife, Canary Islands, 9 – 15 mars 2008
7. **O. Alexandrova**, *Observation of coherent magnetic vortices in planetary magnetosheath*, Workshop on Magnetosheath Processes, CESR, Toulouse, France, 8–10 oct. 2008
8. **O. Alexandrova**, *Anisotropy and structures in space plasma turbulence*, Workshop on Structures and Waves in Anisotropic Turbulence, Warwick Mathematics Institute, UK, 3–7 nov. 2008
9. **O. Alexandrova**, *Magnetosheath Turbulence*, AGU Fall Meeting, San Francisco, USA, dec. 2008
10. **O. Alexandrova**, *Turbulence behind collisionless shocks and Alfvén vortices*, Workshop on Wave Turbulence, Institut Henri Poincaré, 6–10 avril 2009
11. **O. Alexandrova**, *Observations of solar wind turbulence at plasma kinetic scales*, Workshop "Vlasov-Maxwell kinetics: theory, simulations and observations in space plasmas", Wolfgang Pauli Institute (WPI) Vienna, 28 mars -01 avril 2011
12. **O. Alexandrova**, *Solar wind turbulent spectrum from MHD to electron scales*, WISAP 2011, Eilat, 19–24 June, 2011
13. **O. Alexandrova**, C. Lacombe, A. Mangeney, R. Grappin, *Solar Wind Turbulence at Plasma Kinetic Scales and its Dissipation Law*, ESLAB 2011/Cluster 21, Brugge, Belgium, 19 – 23 septembre 2011
14. **O. Alexandrova**, *Magnetic fluctuations spectrum at kinetic scales in the solar wind*, Arcetri 2011 Workshop on Plasma Astrophysics, 17–21 octobre 2011.
15. **O. Alexandrova**, *Turbulence in solar system plasmas: dissipation range*, WORKSHOP on Microphysics of Cosmic Plasmas, ISSI, Bern, 16–20 April 2012.
16. **O. Alexandrova**, *A general law describing solar wind turbulent spectrum at electron scales*, Arcetri 2012 Workshop on Plasma Astrophysics, November 5–8, 2012.
17. **O. Alexandrova**, *Solar wind turbulence at kinetic scales and parallel whistler waves*, Arcetri 2014 Workshop on Plasma Astrophysics, October 27–29, 2014.

18. **O. Alexandrova**, Turbulent spectra in space plasmas, Ecole de Physique des Houches, 23 March–3 Avril 2015, Les Houches, France
19. **O. Alexandrova**, Turbulence dans les plasmas héliosphériques, SF2A Session plénière S00, Toulouse, France, 2–5 juin 2015.
20. **O. Alexandrova**, workshop on "TURBULENCE AND DISSIPATION IN COLLISION-LESS ASTROPHYSICAL PLASMAS", Institut des Etudes Scientifique of Cargese, Corsica, France, September 20th-26th, 2015.
21. **O. Alexandrova**, Solar wind turbulence, Summer school "Magnetic Fields in the Universe: from Laboratory and Stars to the primordial Structures", Institut d'Etudes Scientifiques de Cargèse, Corsica, France, October 5-9, 2015.
22. **O. Alexandrova**, 25th Cluster workshop, Venice, Italy, 12–16 October 2015.
23. **O. Alexandrova**, Solar wind turbulence: coherent structures or waves?, Summer School "ADVANCES IN GEOPHYSICAL AND ASTROPHYSICAL TURBULENCE", Institut des Etudes Scientifique of Cargese, Corsica, France, 26th July–5 August 2016.
24. **O. Alexandrova**, S. Lion, D. Perrone, L. Matteini, C. Lacombe, M. Maksimovic, A. Zaslavsky, Space plasma turbulence: focus on kinetic scales, THOR Workshop #2: Exploring plasma energization in space turbulence, University of Barcelona, 27-29 September 2016.
25. **O. Alexandrova**, Solar wind turbulence: from radial evolution at large scales to nature of small scales fluctuations, Arcetri 2016 Workshop on Plasma Astrophysics, October 17–19, 2016.
26. **O. Alexandrova**, Solar wind and space plasma turbulence, Ecole de Physique des Houches, "From laboratories to astrophysics: the expanding universe of plasma physics", 2-12 May 2017, Les Houches, France.
27. **O. Alexandrova**, C. Lacombe, L. Matteini, D. Perrone, M. Maksimovic, Study of the dissipation range of solar wind turbulence, Cluster 27th workshop, Bled, Slovenia, 11-15 September 2017.
28. **O. Alexandrova**, Solar wind turbulence at kinetic scales, Arcetri 2017 Workshop on Plasma Astrophysics, October 23–27, 2017.

Invited seminars

1. dec 2002 : Institute de Physique, Université d'État de St-Pétersbourg, Russie.
2. avr 2004 : CESR, Toulouse, France.
3. dec 2005 : Université de Calabre, Italie.
4. mai 2006 : CETP, Velizy, France.
5. mai 2007 : Institut de Géophysique, Université de Cologne, Allemagne.
6. mars 2008 : CESR, Toulouse, France.
7. jan 2009 : Imperial College, Londres, UK.
8. dec 2009 : CETP, Velizy, France.

9. oct 2014 : Institut fur Weltraumforschung der Osterreichischen Akademie der Wissenschaften, Graz, Austria.
10. nov 2014 : Rencontres Mécanique des Fluides, Observatoire de la CÔte d'Azur, Nice, France.
11. jan 2016 : Institut de Géophysique, Université de Cologne, Allemagne.
12. juil 2016 : Institute de Physique, Université d'État de St-Pétersbourg, Russie.

Local seminars (selected)

1. fev 2003 : Observatoire de Meudon, France.
2. nov 2006 : Observatoire de Meudon, France.
3. oct 2007 : Institut de Géophysique, Université de Cologne, Allemagne.
4. oct 2011 : LESIA/plasma, Meudon, France.