CURRICULUM VITAE

Lev GASPAROV, Ph.D. (Solid State Physics)

Department of Physics
University of North Florida
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EDUCATION:

Ph.D. Solid State Physics (1993), Institute for Solid State Physics Chernogolovka, Russia Dissertation: Phonon Raman Scattering in high-temperature superconductors.

M.S. & B.S. Combined (1988) Moscow Institute of Steel and Alloys, Moscow, USSR

APPOINTMENTS:

UNF Terry Presidential Professor (2013-present) Department of Physics, University of North Florida, Jacksonville, Florida

Professor (2011-2013), Department of Physics, University of North Florida, Jacksonville, Florida

Associate Professor (2006-2011), Department of Physics, University of North Florida, Jacksonville, Florida

Assistant Professor (2000-2006), Department of Chemistry and Physics, University of North Florida, Jacksonville, Florida

Visiting Assistant Professor (1999-2000), Department of Chemistry and Physics, University of North Florida, Jacksonville, Florida

Postdoctoral Research Associate (1997-1999) Department of Physics, University of Florida Gainesville, Florida

Alexander von Humboldt Fellow (1996-1997), II. Physikalisches Institut RWTH-Aachen, Germany

Visiting Scientist (1995-1996), II. Physikalisches Institut RWTH-Aachen, Germany

Junior Researcher (1992-1995), Institute for Solid State Physics, Chernogolovka, Russia

FUNDING:

Sole PI competitive peer-reviewed external funding (2000-present):	**$391,668**
Secured External Funding (including plus-ups) (2000-present)	$**1,658,219**

PUBLICATIONS:

Total number of peer reviewed publications:	**42**
Total number of citations	**668**
H-index	**15**
Number of papers with at least 10 citations	**18**
Number of papers with more than 100 citations	**1**

EXTERNAL FUNDING (total of **1,658,219** since 2000):

$407,491 *National Science Foundation grant DMR-1429428: MRI: Acquisition of a Single-Crystal Microsource Diffractometer for Interdisciplinary Materials Research and STEM Education.* Co-PI with Dr. Lampropoulos, Dr. Lufaso, Dr. Laali, and Dr. Pekarek *(2014-15).*

$7,500 *National Science Foundation Research Experience for the Undergraduates supplemental award* (2011-2012).

$104,047 *National Science Foundation grant DMR-0958349* "MRI-R2: Acquisition of the Optical Cryostat for Research and Teaching" (2010-2011).

$7,000 *National Science Foundation Research Experience for the Undergraduates supplemental award* (2009-2010).

$158,737 *National Science Foundation grant DMR-0805073,* RUI: Optical Studies of Magnetic, Charge and Orbital Ordering in Lone-pair Compounds and Magnetite (2008-2012)**.**

$859,060 *Office of Naval Research (NAVY),* Advancing Chemical Sensor Science and Technology, co-PI with Dr. Huebner (2006-2007)

$35,000 *ACS Petroleum Research Fund G-type grant PRF#40926-GB10.* Infrared and Raman Studies of 1T-$TiTe_2$ (2004-2008).

$40,384 *Research Corporation Cottrell College Science Award # CC 6130:* Raman and infrared studies of the layered transition metal chalcogenides (2004-2009).

$39,000 *Research Corporation Cottrell College Science Award # CC 5290:* Raman and infrared studies of the layered transition metal chalcogenides (2001-2004).

HONORS AND AWARDS:

2013 UNF International Faculty Travel award **$2,500**

2013 UNF Terry Presidential Professorship

2013 Nominated for the UNF Outstanding Faculty Service Award

2013 UNF Proposal Development award **$7,500**

2012 One Semester Full Pay sabbatical in 2013-2014 academic year

2012 UNF Summer Teaching Development Grant **$7,500**

2012 Nominated for the UNF Outstanding Undergraduate Teaching Award

2011 UNF Faculty Fellow award **$3,000**

2011 Runner up John A. Delaney Presidential Professor Award

2011 Nominated for the UNF Outstanding Undergraduate Teaching Award

2010 UNF Outstanding Faculty Scholarship Award

2010 UNF Proposal Development award **$7,500**

2010 Transformational Learning Opportunity Award: "Raman spectroscopy at UNF and abroad"

2010 Nominated for the UNF Outstanding Undergraduate Teaching Award

2009 Nominated for the UNF Outstanding Undergraduate Teaching Award

2008 COAS Dean's Leadership Council Award **$4,000**

2007 One Semester Full Pay Sabbatical

2003 UNF Summer Research Scholarship, **$5,000**

2002 UNF Proposal Development grant, **$5,000**

2001 UNF Summer Research Scholarship, **$5,000**

1996-1997 Alexander Von Humboldt Fellowship. The Alexander von Humboldt Foundation is a non-profit foundation established in 1953 by the Federal Republic of Germany for the promotion of international research cooperation. It enables highly qualified scholars outside of Germany to spend extended periods of research in Germany and promotes the ensuing academic contacts.

ORGANIZATIONAL MEMBERSHIPS: American Physical Society

COLLABORATORS AND CO-EDITORS (past 5 years): H. Berger (EPFL), L. Forro (EPFL), J. Garner (UNF), G. Güntherodt (RWTH-Aachen), R. Hackl (Walther-Meisner-Institute For Low Temperature Physics), R.J. Hemley (Geophysical Laboratory), H. Nino (UF), T. Pekarek (UNF); C. Petersen (Trinity College, Dublin**),** V.V. Struzhkin (Geophysical Laboratory), D.B. Tanner (UF), J. Tchakhalian (U Ark.).

MENTORING EXPEREINCE: mentored 19 undergraduate students since 1999.

HONORS AND AWARDS-mentoring students

2013 Noah Timmins Outstanding Physics Graduate Award

2012 Chris Knab Outstanding Undergraduate Research in Physics Award

2011 Zhanna Shirshikova Outstanding Undergraduate Research in Physics Award

2011 Chris Knab UNF Student Mentored Academic Research Team (SMART) Grant

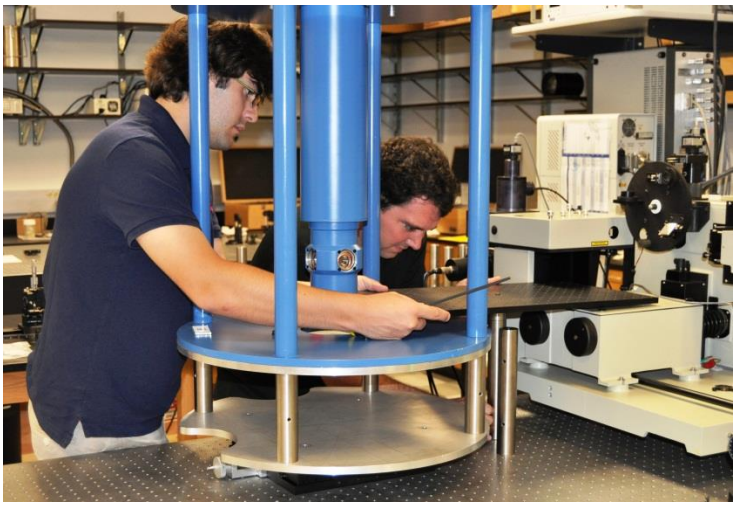
2010 Billy Olsen and Zhanna Shirshikova Transformational Learning Opportunity Award

2009 Zhanna Shirshikova and T. Hayams UNF SMART Grant

2008 Andrew Rush UNF SMART Grant

2008 Andrew Rush Outstanding Undergraduate Research in Physics Award

2004 Daniel Arenas Outstanding Undergraduate Research in Physics Award



UNF students work on the installation of the Oxford Instruments Helium bath cryostat acquired through the NSF support.

PROFESSIONAL SERVICE:

- Proposal reviewer for the National Science Foundation. Participated in two NSF onsite panel reviews: May 2011 (Major Research Instrumentation Award panel) and October 2009 (CAREERE award panel). Over 30 NSF proposals reviewed.
- Proposal reviewer for the National Fund for Scientific and Technological Development (FONDECYT) of the Chilean Government Commission for Scientific and Technological Development (CONICYT)
- Proposal reviewer for the Research Corporation for Science Advancement.
- Reviewer for the Nature Communications, Physical Review Letters, Physical Review B, Journal of Applied Physics, Applied Physics Letters, The European Physical Journal B, D & E, American Mineralogist Journal, Journal of Raman spectroscopy, Journal of Solid State Chemistry.
- Served as a session chair on the "HTS: Optical and Raman" session during March 2002 meeting of the American Physical Society, March 18-22, Indianapolis, IN. Served as a session chair on the "Superconductivity" session during 49th Annual Conference on Magnetism and Magnetic Materials, November 7-11, 2004, Jacksonville, Fl. Served on Advisory committee for the 24th International Conference on the Low Temperature Physics, August 10-17, 2005, Orlando Fl,

PUBLISHED PEER REVIEWED PAPERS *(student coauthors are indicated by asterisk)*

42. T. Muramatsu, **L. Gasparov**, H. Berger, R. J. Hemley, and V. V. Struzhkin. "Electrical resistance of single-crystal magnetite (Fe_3O_4) under quasi-hydrostatic pressure up to 100GPa." J. Appl. Phys.**119**, 135903 (2016).
41. **L. Gasparov**, T. Jegorel*, L. Loetgering*, S. Middey and J. Chakhalian. "Thin film substrates from the Raman spectroscopy point of view." J. Raman Spectrosc., **45**, 465 (2014).
40. D.J. Arenas, Theo Jegorel*, Chris Knab*, **L.V. Gasparov**, C. Martin, D.M. Pajerowski, H. Kohno, M.W. Lufaso. "Raman spectroscopy evidence of inhomogeneous disorder in the bismuth-oxygen framework of $Bi_{25}InO_{39}$ and other sillenites." Phys. Rev. B, **86**, 144116 (2012).
39. **L. Gasparov**, Z. Shirshikova*, T. M. Pekarek, J. Blackburn*, V. Struzhkin, A. Gavriliuk, R. Rueckamp, H. Berger, "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of Al doping", J. Appl. Phys. **112**, 043510 (2012).
38. N. Dean, J. C. Petersen, D. Fausti, R. I. Tobey, S. Kaiser, **L.V. Gasparov,** H. Berger, A. Cavalleri, "Polaronic Conductivity in the Photoinduced Phase of 1*T*-TaS2", Phys. Rev. Letters **106,** 016401 (2011).
37. D. J. Arenas, **L. V. Gasparov**, Wei Qiu, J. C. Nino, C. H. Patterson, and D. B. Tanner, "Raman study of phonon modes in bismuth pyrochlores." Phys. Rev. B **82**, 214302, (2010).
36. A.D. Rowan, C. Petersen, **L. Gasparov**, "Hybrid density functional theory applied to magnetite: Crystal structure, charge order, and phonons." Phys. Rev. B **79**, 205103 (2009)
35. **L.V. Gasparov**, A. Rush*, G. Güntherodt, H. Berger, "Electronic Raman scattering in Magnetite, Spin vs. Charge gap." Phys. Rev. B **79**, 144303 (2009)
34. **L. Gasparov**, A. Rush*, T. Pekarek, N. Patel, H. Berger, "Raman studies of doped magnetite above and below the Verwey transition." J. Appl. Phys. 105, 7E109 (2009)
33. B. Carrico*, J. Saredy*, J.L. Tracy*, N.G. Patel, J. Garner, **L. Gasparov**, "Measurements of the dc resistance of semiconductor thin film-gas systems: Comparison to several transport models." J. Appl. Phys, **102**, 083714 (2007)
32. **L.V. Gasparov,** K.-Y. Choi, G.Güntherodt, H. Berger, L. Forro, "Electronic Raman scattering in Magnetite." J. Appl. Phys. **101**, 09G108 (2007)
31. **L.V. Gasparov**, D. Arenas*, K. -Y. Choi, G. Güntherodt, H. Berger, L. Forro, G. Margaritondo V. V. Struzhkin, R. Hemley, "Magnetite: Raman study of the high-pressure and low-temperature effects." J. Appl. Phys. **97**, 10A922 (2005)
30. **L.V. Gasparov**, K.G. Brown*, A.C. Wint, D.B. Tanner, H. Berger, G. Margaritondo, R. Gaal, L. Forro, "Phonon anomaly at the charge ordering transition in 1T-TaS_2." Phys. Rev. B **66**, 094301 (2002)
29. H. Berger, D. Ariosa, R. Gaal, A. Saleh, G. Margaritondo, S.F. Lee, S.H. Huang, H.W.Chang, T.M. Chuang, Y. Liou, Y/D. Yao, Y.Hwu, J.H. Je, **L.V. Gasparov**, D.B. Tanner, "Coexistence of ferromagnetism and high-temperature superconductivity in Dy-doped BiPbSrCaCuO." Surface Review and Letters **9**, 1109-1112 (2002)
28. **L.V. Gasparov**, D.B. Tanner, D. Romero, H. Berger, G. Margaritondo, L. Forro, "Infrared and Raman studies of the Verwey transition in magnetite." Phys. Rev. B **62**, 7939 - 7944 (2000).

27. V.A. Gasparov, S.N. Ermolov, S.S. Khasanov, G.K. Strukova, **L.V. Gasparov**, H.S. Wang, Qi Li, M. Schnider, Wo. Richter, E. Glaser, F. Schmidl, P.Seidel, B.L. Brandt. "Superconducting, surface and anomalous electron transport properties of $BaNbO_{3-x}$ films." Physica B, **284-288,** 1119 (2000).
26. **L. Gasparov,** P. Lemmens, N.N. Kolesnikov, G. Güntherodt, "Electronic Raman scattering in $Tl_2Ba_2CuO_{6-d}$: Symmetry of the order parameter, oxygen doping effects, and normal -state scattering." Phys. Rev. B **58**, 11753-11760 (1998).
25. **L.V. Gasparov,** P. Lemmens, N.N. Kolesnikov, G. Guntherodt, "Electronic Raman scattering in $Tl_2Ba_2CuO_{6-d}$; oxygen doping-effects." Physica B **244**, 54-59 (1998).
24. **Gasparov, L.V.**, Lemmens, P., Brinkmann, M., Kolesnikov, N.N., Guntherodt, G. "Electronic Raman scattering in the single-CuO_2 layered superconductor $Tl_2Ba_2CuO_{6-d}$." Phys. Rev. B **55**, 1223-1230 (1997).
23. **Gasparov, L.V.**, Lemmens, P., Brinkmann, M., Kolesnikov, N.N., Guntherodt, G. "Electronic Raman scattering in optimally doped Tl-2201." Czechoslovak Journal of Physics **46**, 1103-1104 (1996).
22. Frank, H., Stollmann, R., Lethen, J., Muller, R., **Gasparov, L.V.**, Zakharov, N.D., Hesse, D., Guntherodt, G."Preparation and magnetic properties of (Bi,Pb)-1212." Physica C **268**, 100-106 (1996).
21. **Gasparov, L.V.**, Lemmens, P., Brinkmann, M., Hoffmann, A., Kolesnikov, N.N., Thomas, H., Winzer K., Guntherodt, G. "Electronic Raman scattering of Tl-2201 and Tl-2223 and symmetry of the energy gap." Physica B **223 & 224**, 484-489 (1996).
20. Lemmens, P., Eisener, B., Brinkmann, M., **L Gasparov,.**, Guntherodt, G., P.v. Dongen, Richter, W., Weiden, M., Geibel, C., Steglich, F. "Investigation of the Spin - Peierls transition in $CuGeO_3$ by Raman scattering." Physica B **223 & 224**, 535-537 (1996).
19. **Gasparov, L.V.** "The influence of laser-heating on Raman spectra of $YBa_2Cu_3O_x$." Journal of Molecular Structure **349**, 133-136 (1995).
18. **Gasparov, L.V.** "Laser - heating and phonon modes in $YBa_2Cu_3O_x$. Radiation Effects and Defects in Solids **137**, 331-335 (1995).
17. **Gasparov, L.V.** "The influence of laser - heating on Raman spectra of $YBa_2Cu_3O_x$."Proc.SPIE **2158,** 117-122 (1994).
16. Bazhenov A.V., Egorov V. K., **Gasparov L. V.**, Klassen N. V., Mahonin S. I., Shmurak S. Z., Shmyt'ko I. M. Deformation Welding of Scintillating Materials, MRS Proceedings **348,** p. 551 (1994).
15. **Gasparov, L.V.**, Kulakovskii, V.D., Timofeev, V.B., Sherman, E.Ya. Investigation of two-well potential of the apex oxygen in $YBa_2Cu_2O_{7-x}$ crystals by Raman spectroscopy Journal of Superconductivity **8**, 27(1993)
14. **Gasparov, L.V.**, Kulakovskii, V.D., Timofeev, V.B., Sherman, E.Ya. "Anharmonicity of bridging oxygen vibrations in $YBa_2Cu_3O_{7-x}$ crystals." Proceedings of the 7th International Conference on Phonon Scattering in Condensed Matter VII, Ithaca, USA, August 1992, Eds. M. Meisner and R.O. Pohl, Springer Ser. Solid-State Sci. **112**, 200-201 (1993).

13. Misochko, O.V., Arslanbekov, A.Kh., **Gasparov, L.V.**, Sherman, E.Ya., Timofeev, V.B. "Disorder and phonon Raman scattering in High-T_c superconductors." Proceedings of XIIIth International Conference on Raman Spectroscopy, Wurzburg, Germany (1992), Wiley, New York (1992).
12. **Gasparov, L.V.**, Kulakovskii, V.D., Timofeev, V.B., Sherman, E.Ya. "Anharmonicity of the Bridge Oxygen Vibrations in $YBa_2Cu_3O_{7-x}$ crystals." Sov. Phys.-JETP **73(5)**, 929-933 (1991).
11. **Gasparov, L.V.**, Misochko, O.V., Eremets, M.I., Lomsadze, A.V., Struzhkin, V.V. "Effect of High pressure on Raman spectra of Tl-based superconducting crystals." Proceedings of the XXVIII Annual Meeting of European High Pressure Group, Bordeaux, France, July 1990, High Pressure research **7**, 44-46 (1991).
10. **Gasparov, L.V.**, Misochko, O.V., Eremets, M.I., Lomsadze, A.V., Struzhkin, V.V. "Effect of hydrostatic pressure on lattice dynamics of Tl-based High-T_c superconductors." Sov. Phys.-JETP **71(5)**, 945-950 (1990).
9. Abrosimov, N.V., **Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Timofeev, V.B."Raman effect in Nd_2CuO_4 single crystals." Sov. Phys. -JETP Lett. **51**, 220-223 (1990).
8. **Gasparov, L.V.**, Misochko, O.V., Eremets, M.I., Itskevich, E.S., Lomsadze, A.V., Struzhkin, V.V., Shirokov A.M. "Raman spectra of $Tl_2Ba_2CuO_{6-x}$ crystals under pressure up to 20 GPa." Solid State Commun. **72**, 465-467 (1989).
7. **Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Timofeev, V.B., Kolesnikov, N.N., Kulakov, M.P. "Raman scattering in $Tl_mBa_2Ca_{n-1}Cu_nO_{2(n+1)}$ superconducting crystals." Sov. Phys.-JETP **69**, 1196-1202 (1989).
6. **Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Polyanskii, A.A., Timofeev, V.B. "Raman study of Tl-based superconducting single crystals: phonons assignment and temperature dependence." Physica C **160**, 147-154 (1989).
5. **Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Timofeev, V.B., Kolesnikov, N.N., Kulakov, M.P. "Raman scattering in single crystals of Tl-Ba-Ca-Cu-O superconductors." Sov. Phys.-JETP Lett. **49**, 68-72 (1989).
4. **Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Timofeev, V.B. "Manifestation of the orthorhombic symmetry in Raman spectra of untwined single crystals of $YBa_2Cu_3O_{7-x}$." Physica C **157**, 341-345 (1989).
3. **Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Timofeev, V.B., Emel'chenko, G.A., Tatarchenko,V.A. "Phonon-mode characterization study of orthorhombic and tetragonal $Yba_2Cu_3O_{7-\delta}$ single crystals by Raman spectroscopy." J. Opt. Soc. Amer. B. **6**, 440-447 (1989).
2. **Gasparov, L.V.**, Kulakovskii, V.D., Maksimov, A.A., Misochko, O.V., Tartakovskiy, I.I., Timofeev, V.B. "Temperature dependence of the Raman scattering spectra of superconducting $Yba_2Cu_3O_{7-x}$ single crystals." Sov. Phys. -JETP Lett. **48**, 176-180 (1988).
1. Bazhenov, A.V.,**Gasparov, L.V.**, Kulakovskii, V.D., Misochko, O.V., Osip'yan, Yu.A., Timofeev, V.B. "Isotopic effect in the Raman spectra of orthorhombic and tetragonal $YBa_2Cu_3O_{7-\delta}$ -single crystals." Sov. Phys.-JETP Lett. **47**, 198-202 (1988).

PATENTS:

5. Gorrell, J.; Davidson, M.; Tokarz, J.; **Gasparov, L.** Receiver array using shared electron beam. US Patent #7,679,067 B2 (2010)
4. Gorrell, J.; Davidson, M.; Tokarz, J.; **Gasparov, L.** Resonant detector for optical signals US Patent #7,558,490 B2 (2009)
3. Gorrell, J.; Davidson, M.; **Gasparov, L,** M. Maines**,** P. Hart. Structures and Methods for coupling energy from an electromagnetic wave. US Pattent #7,557,365 B2 (2009).
2. Gorrell, J.; Davidson, M.; Tokarz, J.; **Gasparov, L.** Integration of electromagnetic detector on integrated chip, US Patent #7,554,083 B2 (2009)
1. Gorrell, J.; Davidson, M.; Maines, M.; **Gasparov, L.**; Hart, P.; Structures and methods for coupling energy from an electromagnetic wave. US patent #7,253,426 B2 (2007)

CONFERENCE PRESENTATIONS:

26. "Electrical resistivity study of Magnetite under high pressure", T. Muramatsu, V. Struzhkin, L. Gasparov. March 2014 Meeting of the American Physical Society, Denver Co, March 3-7, 2014.
25. "Thin Film Substrates from the Raman spectroscopy point of view", L. Gasparov, T. Jegorel, L. Loetgering, S. Middey, J. Chakhalian. March 2014 Meeting of the American Physical Society, Denver Co, March 3-7, 2014.
24. "Infrared evidence for multiple structural transitions in single crystal $Cu_3(SeO_3)_2Cl_2$", K. H. Miller, D. B. Tanner, H. Berger, A. Magrez, D. J. Arenas, L. V. Gasparov, P. W. Stephens, March Meeting of the American Physical Society, Baltimore ME, March 2013.
23. "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of Al-doping." L. Gasparov, Z. Shirshikova, T.M. Pekarek, J. Blackburn, V. Struzhkin, A. Gavriliuk, R. Rueckamp, H. Berger, March Meeting of the American Physical Society, Boston MA, March 2012.
22. Raman Spectroscopy and Scanning Electron Microscopy of the Bismuth Sillenites $Bi_{25}InO_{39}$ and $Bi_{25}FeO_{39}$. D. J. Arenas, T. Jegorel, L. Gasparov, H. Kohno, C. Martin, D. B. Tanner, M. W. Lufaso, March Meeting of the American Physical Society, Boston MA, March 2012.
21. "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of Al-doping." L. Gasparov, Z. Shirshikova, T. Pekarek, J. Blackburn, V. Struzhkin, A. Gavriliuk, R. Rueckamp, H. Berger. 2011 International Magnetics Conference, Intermag 2011, Taipei, Taiwan, April 25-29, 2011
20. "Raman Study of the Verwey Transition in Magnetite (Fe3O4) at High Pressure and Low Temperature: Effect of Aluminum Doping." Z. Shirshikova, L. Gasparov. V. Struzhkin, A. Gavriliuk, H. Berger, March Meeting of the American Physical Society, Dallas, TX, March 2011.
19. "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of doping". L. Gasparov, Z. Shirshikova, T. Hyams, V. Struzhkin, A. Gavriliuk, H. Berger. 2010 Low Energy Electrodynamics in Solids (LEES) conference, Les Diablerets, Switzerland, July 5-10, 2010
18. "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of doping". L. Gasparov, V. Struzhkin, A. Gavriliuk, H. Berger. 2010 March Meeting of the American Physical Society, Portland, OR, March 15-19th, 2010

17. "Raman studies of doped magnetite above and below the Verwey transition, L. Gasparov, A. Rush, T. Pekarek, N. Patel, H. Berger, (talk was given by Andrew Rush). 53^{d} Annual Conference on Magnetism and Magnetic Materials, Austin, TX, November 10-14, 2008.
16. "Electronic Raman Scattering in Magnetite: Spin vs. Charge gap", **L. Gasparov**, G. Güntherodt, H. Berger, L. Forro, March Meeting of the American Physical Society, New Orleans, LA, March 10–14, 2008.
15. "Electronic Raman scattering in Magnetite." **L. Gasparov**, G. Güntherodt, K.-Y. Choi, H. Berger, L. Forro, March Meeting of the American Physical Society, Denver, CO, March 5-9, 2007.
14. "Electronic Raman scattering in Magnetite." **L. Gasparov**, G. Güntherodt, K.-Y. Choi, H. Berger, L. Forro, The Tenth Joint Magnetism And Magnetic Materials-International Magnetics Conference, Baltimore, MD, January 7-11, 2007.
13. "1T-$TiTe_2$: scattering rate from infrared and Raman data." **L.V. Gasparov**, G. Güntherodt, H. Berger, L. Forro, G. Margaritondo, D. Tanner. March Meeting of the American Physical Society, Los Angeles, CA, March 21-25, 2005.
12. "Magnetite: Raman study of the high-pressure and low-temperature effects." **L.V. Gasparov**, D. Arenas, K. -Y. Choi, G. Güntherodt, H. Berger, L. Forro, G. Margaritondo V. V. Struzhkin, R. Hemley. 49th Annual Conference on Magnetism and Magnetic Materials, Jacksonville, FL, November 8-11, 2004.
11. "Magnetite: Raman study of the high-pressure and low-temperature effects." **L.V. Gasparov**, D. Arenas, K. -Y. Choi, G. Güntherodt, H. Berger, L. Forro, G. Margaritondo V. V. Struzhkin, R. Hemley. Low Energy Electrodynamics in Solids Conference, July 18-23, 2004, Kloster Banz, Germany.
10. "Magnetite: Raman study of the high-pressure and low-temperature effects." **L.V. Gasparov**, D. Arenas, K. -Y. Choi, G. Güntherodt, H. Berger, L. Forro, G. Margaritondo V. V. Struzhkin, R. Hemley. March Meeting of the American Physical Society, March 22-26, 2004, Montreal, Canada.
9. "Raman studies of 1T-TaS_2." **L.V. Gasparov**, D. B. Tanner, K. -Y. Choi, G. Güntherodt, E.Ya. Sherman, H. Berger, L. Forro, G. Margaritondo. March Meeting of the American Physical Society, March 3-7, 2003, Austin, TX.
8. "Where does 98% of the superfluid spectral weight in the cuprates come from?" D.B. Tanner, F. Gao, L.V. Gasparov, K. Kamarás, H.L. Liu, M.A. Quijada, D.B. Romero, N. Tache, A. Zibold , H. Berger, G. Margaritondo, L. Forró, R.J. Kelly, M. Onellion, G. Cao, J.E. Crow, J.T. Markert, J.P. Rice, D.M. Ginsberg, Th. Wolf. March Meeting of the American Physical Society, March 3-7, 2003, Austin, TX.
7. "Infrared studies of 1T-TaS_2." **L.V. Gasparov**, K. G. Brown, A. Wint, D. B. Tanner, K.-Y. Choi, G. Güntherodt, E.Ya. Sherman, H. Berger, L. Forro, G. Margaritondo. March Meeting of the American Physical Society, March 18-22, 2002, Indianapolis, IN.
6. "Infrared properties of Dy-doped Bi-2212." **L.V. Gasparov**, T. Pekarek, D. B. Tanner, H. Berger, L. Forro. March Meeting of the American Physical Society, March 12-16, 2001, Seattle, WA.
5. "Superfluid density and superconducting transition temperature in Bi-based cuprate single crystals." **L.V. Gasparov**, D. B. Tanner, H. Berger, L. Forro, G. Margaritondo. March Meeting of the American Physical Society, March 20-24, 2000, Minneapolis, MN.

4. "Infrared studies of magnetite." **L.V. Gasparov**, D. B. Tanner, D. Romero, H. Berger, L. Forro. March Meeting of the American Physical Society, March 20-26, 1999, Atlanta, GA.
3. Optical properties of the superconducting and semiconducting Bi-2212 based crystals." **L.V. Gasparov**, S. Hong, D. B. Tanner, H. Berger, L. Forro, G. Margaritondo. March Meeting of the American Physical Society, March 16-20, 1998, Los Angeles, CA.
2. "Electronic Raman scattering in $Tl_2Ba_2CuO_{6-d}$: Symmetry of the order parameter, oxygen doping effects, and normal-state scattering." **L.V. Gasparov,** P. Lemmens, N.N. Kolesnikov, G. Guntherodt. Low Energy Electrodynamics in Solids Conference, July 6-11, 1997, Ascona, Switzerland.
1. "Phonon modes in high-T_c superconductors." **L.V. Gasparov**. Physique en Herbe 94, European Conference for PhD students in Physical Science, July 4-8th 1994, Montpellier, France.

INVITED SEMINARS:

10. "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of Al-doping." Walther Meissner Institute for Low Temperature research, Garching, Germany, May 9, 2014.
9. "Raman study of the Verwey transition in Magnetite at high-pressure and low-temperature; effect of Al-doping." University of Technology in Troyes, France, June 28, 2012.
8. "Magnetite: Raman study of the high-pressure and low-temperature effects." Department of Physics, University of Central Florida, Orlando, Fl. November 10, 2004.
7. "Magnetite: Raman study of the high-pressure and low-temperature effects." Max - Plank Institute for Solid State Physics Research, Stuttgart, Germany, August 2, 2004.
6. "Magnetite: Raman study of the high-pressure and low-temperature effects." University of Augsburg, Augsburg, Germany, July 15, 2004.
5. "Magnetite: Raman study of the high-pressure and low-temperature effects." II Physikalisches Institut RWTH, Aachen, Germany, July 12, 2004,
4. "Optical studies of 1T-TaS_2." Walther-Meissner Institute for Low Temperature Physics, Garching, Germany, July 19, 2002.
3. "Infrared studies of 1T-TaS_2." II Physikalisches Institut RWTH-Germany, June 10, 2002, Aachen, Germany.
2. "Electronic Raman Scattering in Tl-based High temperature superconductors." University of Groningen, April 1997, The Netherlands.
1. "Anharmonicity of the Bridge Oxygen Vibrations in $YBa_2Cu_3O_{7-x}$ crystals." II Physikalisches Institut RWTH, September 12, 1994, Aachen, Germany.