

CURRICULUM VITAE

Dr. Meni Shay ד"ר מני שי

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EDUCATION

PhD, 2007: Physics, Technion (Haifa)

MSc, 2002: Physics, Hebrew University (Jerusalem)

BSc, 1999: Physics, Hebrew University (Jerusalem)

BA, 1997: Computer Science (Open University, Israel)

RESEARCH INTERESTS

- Experimental High Temperature Superconductivity
- Crystal growth
- Thin films preparation using laser ablation and photolithography
- Main tools: Raman Scattering, Low Energy muon Spin Rotation, Transport, Low Temperatures

ACADEMIC APPOINTMENTS

2010-present, Lecturer, Ort Braude College, Karmiel

2008-2011, Research Staff, Technion

2007-2010: Ort Braude College, Karmiel, Israel; Adjunct Lecturer.

2006-2008 Post Doc, Technion

TEACHING EXPERIENCE

2007-2010: Ort Braude College, Karmiel, Israel; Adjunct Lecturer.

2002-2007: Dep. of Physics, Technion, Haifa, Israel; Teaching assistant

2000-2002: Dep. of Physics, Hebrew University, Jerusalem, Israel; Teaching assistant

INDUSTRIAL EXPERIENCE

1998 - 2001: Optimet Ltd., Jerusalem Israel. Physicist in the R&D department.

1995 - 1998: Computer programmer, Digital Ltd., Israel.

LIST OF PUBLICATIONS

Refereed Papers

1. Gil Drachuck, Meni Shay, Galina Bazalitsky, Rinat Ofer, Zaher Salman, Alex Amato, Christof Niedermayer, Dirk Wulferding, Peter Lemmens and Amit Keren "New Perspectives for Cuprate Research: (Ca_xLa_{1-x})(Ba_{1.75-x}La_{0.25+x})Cu₃O_y Single Crystals" , J. OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, doi: [10.1007/s10948-012-1669-z](https://doi.org/10.1007/s10948-012-1669-z) (2012)
2. Gil Drachuck, Meni Shay, Galina Bazalitsky, Jorge Berger, Amit Keren "Parallel and perpendicular susceptibility above T_c in La_{2-x}Sr_xCuO₄ single crystals" Phys. Rev. B **85** 184518 (2012)
3. E. Razzoli, Y. Sassa, G. Drachuck, M. Månsson, A. Keren, M. Shay, M. H. Berntsen, O. Tjernberg, M. Radovic, J. Chang, S. Pailhès, N. Momono, M. Oda, M. Ido, O. J. Lipscombe, S. M. Hayden, L. Patthey, J. Mesot and M. Shi, "The Fermi surface and band folding in La_{2-x}Sr_xCuO₄, probed by angle-resolved photoemission", New Journal of Physics, **12**, 125003 (2010).
4. M. Shay, A. Keren, G. Koren, A. Kanigel, O. Shafir, G. Nieuwenhuys, E. Morenzoni, M. Dubman, A. Suter ,T. Prokscha and D. Podolsky, "Experimental investigation of the coupling between magnetic and superconducting order parameters in La_{1.94}Sr_{0.06}CuO₄", Phys. Rev. B, **80**, 144511 (2009).
5. O. Pelleg, J. Bossy, E. Farhi, M. Shay, V. Sorkin, and E. Polturak, "Anharmonic Effects in Neutron Scattering Studies of Lattice Excitations in BCC ⁴He", J. Low Temp. Phys. **151**, 1164 (2008).

6. M. Shay, O. Pelleg, E. Polturak, and S. G. Lipson, "Bound roton pairs in HeII under pressure: Analysis of Raman spectra", Phys. Rev. B **75**, 054516 (2007).
7. S. M. Rubinstein, M. Shay, G. Cohen, and J. Fineberg, "Crack-Like processes governing the onset of Frictional Slip", Int. J. Fract., **140**, 201-212 (2006).
8. O. Pelleg, J. Bossy, E. Farhi, M. Shay, V. Sorkin, and E. Polturak, "Opticlike excitations in bcc ^4He : An inelastic neutron scattering study", Phys. Rev. B **73**, 180301 (2006).
9. O. Pelleg, M. Shay, S. G. Lipson, E. Polturak, J. Bossy, J. C. Marmeggi, K. Horibe, E. Farhi and A. Stunault, "Observation of macroscopic structural fluctuations in bcc solid ^4He ", Phys. Rev. B **73**, 024301 (2006).

INVITED TALKS

1. M. Shay, A. Keren, "The Effect of Superconducting Current on the Magnetic Phase Transition in LSCO films", Theoretical and Experimental Magnetism Meeting, Sept 8-9 2010, The Cosener's House, **Abingdon, UK**.
2. M. Shay, A. Keren, "Experimental investigation of the coupling between magnetic and superconducting order parameters in $\text{La}_{1.94}\text{Sr}_{0.06}\text{CuO}_4$ ", The Fifth International Conference on Mathematical Modeling and Computer Simulation of Materials Technologies, Sept 10, 2008 **Ariel, Israel**.
3. M. Shay, A. Keren, "Magnetic resonance in thin films using muons", The Annual Meeting of the Israeli Magnetic Resonance Club, May 15, 2007, Technion, **Haifa, Israel**.