

List of publications

- 95 **Magnetic excitations and amplitude fluctuations in insulating cuprates**
N. Chelwani, A. Baum, T. Böhm, M. Opel, F. Venturini, A. Erb, H. Berger, L. Forró, and R. Hackl
[arXiv:1705.01496](https://arxiv.org/abs/1705.01496)
- 94 **The case for spin-fluctuation induced superconductivity in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$**
T. Böhm, F. Kretzschmar, A. Baum, M. Rehm, D. Jost, R. Hosseinian Ahangharnejhad, R. Thomale, C. Platt, T. A. Maier, W. Hanke, B. Moritz, T. P. Devereaux, D. J. Scalapino, S. Maiti, P. J. Hirschfeld, P. Adelman, T. Wolf, Hai-Hu Wen, and R. Hackl
[arXiv:1703.07749](https://arxiv.org/abs/1703.07749)
- 93 **Off-axis parabolic mirror optics for polarized Raman spectroscopy at low temperature**
N. Chelwani, D. Hoch, D. Jost, B. Botka, J.-R. Scholz, R. Richter, M. Theodoridou, F. Kretzschmar, T. Böhm, K. Kamarás, and R. Hackl
[Appl. Phys. Lett. **110**, 193504 \(2017\)](https://doi.org/10.1063/1.4973504)
- 92 **Probing the pairing interaction and multiple Bardasis-Schrieffer modes using Raman spectroscopy**
S. Maiti, T. A. Maier, T. Böhm, R. Hackl, P. J. Hirschfeld
[Phys. Rev. Lett. **117**, 257001 \(2016\)](https://doi.org/10.1103/PhysRevLett.117.257001)
- 91 **Superconductivity and fluctuations in $\text{Ba}_{1-p}\text{K}_p\text{Fe}_2\text{As}_2$ and $\text{Ba}(\text{Fe}_{1-n}\text{Co}_n)_2\text{As}_2$**
T. Böhm, R. Hosseinian Ahangharnejhad, D. Jost, A. Baum, B. Muschler, F. Kretzschmar, P. Adelman, T. Wolf, H.-H. Wen, J.-H. Chu, I. R. Fisher, R. Hackl
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- 90 **Charge density wave modulation and gap measurements in CeTe_3**
U. Ralević, N. Lazarević, A. Baum, H.-M. Eiter, R. Hackl, P. Giraldo-Gallo, I. R. Fisher, C. Petrovic, R. Gajić, and Z. V. Popović
[Phys. Rev. B **94**, 165132 \(2016\)](https://doi.org/10.1103/PhysRevB.94.165132)
- 89 **Critical spin fluctuations and the origin of nematic order in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$**
F. Kretzschmar, T. Böhm, U. Karahasanović, B. Muschler, A. Baum, D. Jost, J. Schmalian, S. Caprara, M. Grilli, C. Di Castro, J. G. Analytis, J.-H. Chu, I. R. Fisher, R. Hackl
[Nature Phys. **12**, 560 \(2016\)](https://doi.org/10.1038/nphys12056)
- 88 **Supraleitung unter Hochdruck**
R. Hackl and B. Büchner
Physik Journal **14** (11), 22 (2015)
- 87 **Antiferromagnetic fluctuations in a quasi-two-dimensional organic superconductor detected by Raman spectroscopy**
N. Drichko, R. Hackl, J. A. Schlueter
[Phys. Rev. B **92**, 161112\(R\) \(2015\)](https://doi.org/10.1103/PhysRevB.92.161112)
- 86 **Manifestation of nematic degrees of freedom in the Raman response function of iron pnictides**
U. Karahasanović, F. Kretzschmar, T. Böhm R. Hackl, I. Paul, Y. Gallais, and J. Schmalian
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- 85 **Signatures of nematic quantum critical fluctuations in the Raman spectra of lightly**

doped cuprates

S. Caprara, M. Colonna, C. Di Castro, R. Hackl, B. Muschler, L. Tassini, and M. Grilli
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- 84 **Balancing act: Evidence for a strong subdominant *d*-wave pairing channel in $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$**
 T. Böhm, A. F. Kemper, B. Moritz, F. Kretzschmar, B. Muschler, H.-M. Eiter, R. Hackl, T. P. Devereaux, D. J. Scalapino, and Hai-Hu Wen
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- 83 **A Raman study of the temperature and magnetic field dependence of electronic and lattice properties in MnSi**
 H.-M. Eiter, P. Jaschke, R. Hackl, A. Bauer, M. Gangl, and C. Pfleiderer
[Phys. Rev. B **90**, 024411 \(2014\)](#)
- 82 **Interactions and Chemical Transformations of Coronene Inside and Outside Carbon Nanotubes**
 Bea Botka , Melinda E. Füstös , Hajnalka M. Tóháti , Katalin Németh , Gyöngyi Klupp , Zsolt Szekrényes , Dorina Kocsis , Margita Utczás , Edit Székely , Tamás Váczi , György Tarczay , Rudi Hackl , Thomas W. Chamberlain , Andrei N. Khlobystov , and Katalin Kamarás
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- 81 **Localized states in the Mott insulator $\kappa\text{-(BEDT-TTF)}_2\text{Cu}[\text{N}(\text{CN})_2]\text{Cl}$ as probed by photoluminescence**
 N. Drichko, R. Hackl, and J. Schlueter
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- 80 **Raman-Scattering Detection of Nearly Degenerate *s*-Wave and *d*-Wave Pairing Channels in Iron-Based $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ and $\text{Rb}_{0.8}\text{Fe}_{1.6}\text{Se}_2$ Superconductors**
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- 79 **Alternative route to charge density wave formation in multiband systems**
 H.-M. Eiter, M. Lavagnini, R. Hackl, E.A. Nowadnick, A.F. Kemper, T.P. Devereaux, J.-H. Chu, J.G. Analytis, I.R. Fisher, and L. Degiorgi
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- 78 **Low-temperature encapsulation of coronene in carbon nanotubes**
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- 77 **Feedback effect on high-energy magnetic fluctuations in the model high-temperature superconductor $\text{HgBa}_2\text{CuO}_{4+\delta}$ observed by electronic Raman scattering**
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- 76 **Investigation of particle-hole asymmetry in the cuprates via electronic Raman scattering**
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- 75 **Pair breaking versus symmetry breaking: Origin of the Raman modes in superconducting cuprates**
N. Munnikes, B. Muschler, F. Venturini, L. Tassini, W. Prestel, Shimpei Ono, Yoichi Ando, D. C. Peets, W. N. Hardy, Ruixing Liang, D. A. Bonn, A. Damascelli, H. Eisaki, M. Greven, A. Erb, and R. Hackl
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- 74 **Light scattering study of low-energy vibrational excitations in the metallic glass Ni₆₇Zr₃₃ using electronic Raman scattering**
B. Muschler, I. Tüttő, A. Zawadowski, J. Balogh, and R. Hackl
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- 73 **Unravelling the glue and the competing order in superconducting cuprates**
S. Caprara, C. Di Castro, B. Muschler, R. Hackl, M. Lambacher, A. Erb, S. Komiya, Y. Ando, M. Grilli
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- 72 **Superconductivity in copper-oxygen compounds**
R. Hackl
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- 71 **Investigation of fullerene encapsulation in carbon nanotubes using a complex approach based on vibrational spectroscopy**
Ákos Botos, Andrei N. Khlobystov, Bea Botka, Rudi Hackl, Edit Székely, Béla Simándi, and Katalin Kamarás
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- 70 **A systematic study of optical and Raman spectra of peapod-based DWNTs**
Bea Botka, Áron Pekker, Ákos Botos, Katalin Kamarás, and Rudi Hackl
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- 69 **Femtosecond Response of Quasiparticles and Phonons in Superconducting YBa₂Cu₃O_{7-δ} Studied by Wideband Terahertz Spectroscopy**
A. Pashkin, M. Porer, M. Beyer, K.W. Kim, A. Dubroka, C. Bernhard, X. Yao, Y. Dagan, R. Hackl, A. Erb, J. Demsar, R. Huber, and A. Leitenstorfer
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- 68 **Towards a better understanding of superconductivity at high transition temperatures**
R. Hackl and W. Hanke
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- 67 **Pinpointing Gap Minima in Ba(Fe_{0.94}Co_{0.06})₂As₂ via Band Structure Calculations and Electronic Raman Scattering**
I. I. Mazin, T. P. Devereaux, J. G. Analytis, Jiun-Haw Chu, I. R. Fisher, B. Muschler, R. Hackl
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- 66 **Electron interactions and charge ordering in CuO₂ compounds**
B. Muschler, W. Prestel, L. Tassini, R. Hackl, M. Lambacher, A. Erb, Seiki Komiya, Yoichi Ando, D. C. Peets, W. N. Hardy, Ruixing Liang, D. A. Bonn
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- 65 **Quantitative comparison of single- and two-particle properties in the cuprates**
W. Prestel, F. Venturini, B. Muschler, I. Tüttő, R. Hackl, M. Lambacher, A. Erb, Seiki Komiya, Shimpei Ono, Yoichi Ando, D. Inosov, V.B. Zabolotnyy, S.V. Borisenko

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- 63 Infrared and Raman investigation of carbon nanotube-polyallylamine hybrid systems**
Hajnalka-Mária Tóháti, Bea Botka, Katalin Németh, Áron Pekker, Rudi Hackl, and Katalin Kamarás
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M. Lavagnini, H.-M. Eiter, L. Tassini, B. Muschler, R. Hackl, R. Monnier, J.-H. Chu, I. R. Fisher, and L. Degiorgi
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L. Tassini, W. Prestel, A. Erb, M. Lambacher, R. Hackl
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- 57 Onset of spontaneous electrostrictive strain below 520 K in Pr-doped SrTiO_3**
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- 55 First production of ultracold neutrons with a solid deuterium source at the pulsed reactor TRIGA Mainz**
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G. Klupp, F. Borondics, É. Kováts, Á. Pekker, G. Bényei, I. Jalsovszky, R. Hackl,
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