

Publications and Presentations

(Updated August 24, 2005)

Sung Chang

Publications in print

"Magnetic structure of the local-moment antiferromagnet CeCuSn," S. Chang, Yuri Janssen, V. O. Garlea, J. Zarestky, H. Nakotte and R. J. McQueeney, *Journal of Applied Physics* **97**, 10A913 (2005).

"Magnetic ordering in single-crystalline SrLaFeO₄ and Sr_{1.1}La_{0.9}FeO₄," M. H. Jung, A. M. Alsmadi, S. Chang, M. R. Fitzsimmons, Y. Zhao, A. H. Lacerda, H. Kawanaka, S. El-Khatib and H. Nakotte, *Journal of Applied Physics* **97**, 10A926 (2005).

"YbGaGe: normal thermal expansion," Y. Janssen, S. Chang, B.K. Cho, A. Llobet, K. W. Dennis, R. W. McCallum, R. J. McQueeney, P. C. Canfield, *Journal of Alloys and Compounds* **389**, 10 (2005).

"Low-temperature magnetic structure of UPdGe," S. El-Khatib, S. Chang, H. Nakotte, D. Brown, E. Brück, A. J. Schultz, A. Christianson and A. Lacerda, *Journal of Applied Physics* **93**, 8352 (2003).

"Neutron-diffraction study of CePtSn," B. Janousova, P. Svoboda, V. Sechovský, K. Prokeš, T. Komatsubara, H. Nakotte, S. Chang, B. Ouladdiaf and I. Cisarova, *Applied Physics A* **74**, S731 (2002).

"High-field magnetization, longitudinal and transverse magnetoresistance in UIrGe," S. Chang, H. Nakotte, A.M. Alsmadi, A.H. Lacerda, M.H. Jung, M. Mihalik, K. Prokeš, J.C.P. Klaasse, E. Brück and F.R. de Boer, in *Proceedings of Physical Phenomena in High Magnetic Fields IV*, edited by G. Boebinger, (World Scientific, Singapore, 2002) p. 133.

"Magnetic structure of antiferromagnetic NdRhIn₅," S. Chang, W. Bao, J. Gardner, I.P. Swainson, P.G. Pagliuso and J.L. Sarrao, *Physical Review B* **66**, 132417 (2002).

"Hybridization and pressure effects in UTX compounds," A.M. Alsmadi, V. Sechovský, A.H. Lacerda, K. Prokes, J. Kamarad, E. Brück, S. Chang, M.H. Jung and H. Nakotte, *Journal of Applied Physics* **91**, 8123 (2002).

"Complex Conductivity of UNiGe in applied magnetic fields," S. Chang, C.H. Mielke, M. Bennett, E Brück and H. Nakotte, *Physica B* **312**, 877 (2002).

"Inelastic neutron scattering studies on UNiGe," H. Nakotte, S. Chang, R.A. Robinson, T. Kelley, T. Swan and E Brück, *Physica B* **312**, 875 (2002).

"Resistance and Magnetoresistance of UIrGe under high pressure," A.M. Alsmadi, S. Chang, M.H. Jung, A.H. Lacerda, E. Brück, K. Prokeš, V. Sechovský, J. Kamarad, M. Mihalik and H. Nakotte, in *Frontiers of High Pressure Research II: Application of High Pressure to Low-Dimensional Novel Electronic Materials*, edited by H. D. Hochheimer, B. Kuchta, P.K. Dorhout and J.L. Yarger (Klewer Academic Publishers, Dordrecht 2001) p. 463.

"Field dependence of the incommensurate magnetic order in UNiGe," H. Nakotte, S. Chang, Z. Tun, K. Prokeš, P. Svoboda, V. Sechovský and E. Brück, *Journal of Magnetism and Magnetic Materials* **226**, 70 (2001).

"Magnetoresistance measurements in UCu_{4+x}Al_{8-x} compounds," M. S. Torikachvili, R. F. Jardim, S. Chang, A. Christianson, R. Muccillo, H. Nakotte and A. H. Lacerda, *Journal of Magnetism and Magnetic Materials* **226-230**, 42 (2001).

"On some magnetic phase transitions in CePtSn," T. Khmelevska, S. Chang, H. Nakotte, P. Svoboda, M. S. Torikachvili and V. Sechovský, *Journal of Alloys and Compounds* **323**, 380 (2001).

"Magnetic phase transitions in CePtSn," T. Khmelevska, P. Svoboda, B. Janousova, V. Sechovský, S. Chang, H. Nakotte and M. S. Torikachvili, *Journal of Applied Physics* **89**, 7189 (2001).

"Electronic properties of UIrGe in high magnetic fields," S. Chang, M.H. Jung, H. Nakotte, E. Brück, J.C.P. Klaasse, M. Mihalik, A.H. Lacerda, K. Prokeš, M.S. Torikachvili and A.J. Schultz, *Journal of Applied Physics* **89**, 7186 (2001).

Publications in print (continued)

"Magnetism in some $\text{UCo}_{1/3}\text{T}_{2/3}\text{Al}$ solid solutions (T = transition metal)," S. Chang, H. Nakotte, A.V. Andreev, H.N. Bordallo, L. Havela, V. Sechovský and M.S. Torikachvili, *Journal of Applied Physics* **87**, 6812 (2000).

"Crystallographic order and magnetism in $\text{UCo}_{1/3}\text{T}_{2/3}\text{Al}$ compounds (T = Ru, Rh, Pt)," S. Chang, H. Nakotte, A.J. Schultz, H.N. Bordallo, M.S. Torikachvili, V. Sechovský and A.V. Andreev, *Physica B* **276**, 634 (2000).

"Magnetism in single-crystalline CePtSn ," H. Nakotte, S. Chang, M.S. Torikachvili, H.N. Bordallo, A.H. Lacerda and T. Takabatake, *Physica B* **281**, 103 (2000).

"Structural and magnetic properties of the Kondo insulator $\text{UFe}_4\text{P}_{12}$," H. Nakotte, N.R. Dilley, M.S. Torikachvili, H.N. Bordallo, M.B. Maple, S. Chang, A. Christianson, A.J. Schultz, C.F. Majkrzak and G. Shirane, *Physica B* **261**, 280 (1999).

Invited talks

"Phonons & the metal-insulator transition in VO_2 ," Lujan Seminar Series, Los Alamos National Laboratory, Los Alamos, NM, May, 2005

"Unusual Magnetic Structures in CeCuSn and CePtSn ," CMP Seminar, Iowa State University, Ames, IA, September, 2003

"Crystal structure and magnetism in $\text{UCo}_{1/3}\text{T}_{2/3}\text{Al}$ (T = Ru, Pt, Rh)," Department of Electronic Structures Colloquium, Charles University, Prague, the Czech Republic, September, 1999.

Contributed presentations

"Phonons & the metal insulator transition in VO_2 ," APS March Meeting, Los Angeles, CA, March, 2005.

"Magnetic structure of the local moment antiferromagnet CeCuSn ," Conference on Magnetism and Magnetic Materials, Jacksonville, FL, November, 2004

"Electron-phonon coupling at metal insulator transitions," American Conference on Neutron Scattering, College Park, MD, June 2004

"High field magnetization and magnetoresistance of UIrGe ," Physical Phenomena at High Magnetic Fields IV, Santa Fe, NM, November, 2001.

"Complex conductivity of UNiGe ," APS 4-Corners Section Meeting, Las Cruces, NM, November, 2001.

"Neutron diffraction studies of CePtSn ," LANSCE User Group Meeting, Los Alamos, NM, August, 2001.

"Complex conductivity of UNiGe ," Strongly Correlated Electron Systems Conference, Ann Arbor, MI, August, 2001.

"Magnetic structures in UCuSn ," APS March Meeting, Seattle, WA, March, 2001.

"Electronic properties of UIrGe in high magnetic fields," Joint Intermag-MMM conference, San Antonio, TX, January, 2001.

"Magnetism in CePtSn ," APS 4-Corners Section Meeting, Ft. Collins, CO, September, 2000.

"Magnetic structure of CeCuSn ," LANSCE User Group Meeting, Santa Fe, NM, January, 2000.

"Magnetism in some $\text{UCo}_{1/3}\text{T}_{2/3}\text{Al}$ solid solutions (T = transition metal)," Conference on Magnetism and Magnetic Materials, San Jose, CA, November, 1999.

"Crystallographic order and magnetism in $\text{UCo}_{1/3}\text{T}_{2/3}\text{Al}$ compounds (T = Ru, Rh, Pt)," European Conference on Neutron Scattering, Budapest, Hungary, September, 1999.

Contributed presentations (continued)

"Structural and magnetic properties of U(T,Co)Al solid solutions (T=Ru, Rh, Pt)," APS March Meeting, Atlanta, GA, March, 1999.

"Structural and magnetic properties of the Kondo insulator UFe₄P₁₂," LANSCE User Group Meeting, Los Alamos, NM, September, 1998.