Peter Kneisel's Publications

as of 12/08

"Preliminary Results from Multi-Cell Seamless Niobium Cavities Fabricated by Hydroforming"
W. Singer, I. Jelezov, X. Singer, A. Matheisen, P. Kneisel, G. Ciovati, M. Morrone
http://accelconf.web.cern.ch/accelconf ; LINAC2008, paper THP043 (2008)

"Coaxial Coupling Scheme for Fundamental and Higher Order Modes in Superconducting Cavities"
J. Sekutowicz, P. Kneisel, G. Ciovati, L. Xiao
http://accelconf.web.cern.ch/accelconf ; LINAC 2008, paper THP044 (2008)

"Superconducting RF Deflecting Cavity Design and Prototype for Short X-ray Pulse Generation"
J. Shi, H.B. Chen, C.X. Tang, H. Wang, R. Rimmer, P. Kneisel, L. Turlington, G. Cheng, G. Ciovati, G. Slack, G. Waldschmidt, A. Nassiri, D. Li
Proc. EPAC2008, (2008)

"Status and Test Results of High Current 5-Cell SRF Cavities Developed at JLab"
F. Marhauser, W. Clemens, G. Cheng, G. Ciovati, E.F. Daly, D. Forehand, J. Henry, P. Kneisel,S. Manning, R. Manus, R.A. Rimmer, C. Tennant, H. Wang
Proc. EPAC2008, (2008)

"FZJ Smalls SC Triple-Spoke Cavity"
E. Zaplatin, W. Braeutigam, M. Pap, M. Skrobucha, P. Kneisel
Proc. EPAC2008, (2008)

"Performance of Single Crystal Niobium Cavities"
P. Kneisel, G. Ciovati, W. Singer, X. Singer, D. Reschke, A. Brinkmann
Proc. EPAC2008, (2008)

"Progress on the development of a superconducting connection for niobium cavities"
P. Kneisel, G. Ciovati, L. Turlington, J. Sekutowicz
Appl.Supercond. Conf., (2008)

"Tunneling Studies of SRF Cavity - grade Niobium"
T. Proslier, J. Zasadzinski, I. Cooley, M. Pellin, J. Norem, J. Elam, C. Antoine, R. Rimmer, P. Kneisel
Appl. Supercond.Conf. 2008, paper 2LX05, (2008)

Peter Kneisel's Publications

as of 12/08

"Measurement of the high-field Q drop in a high-purity large-grain niobium cavityfor different oxidation processes"
G. Ciovati , P. Kneisel and A. Gurevich
http://www.pku.edu.cn/academic/srf2007/proceeding.html ; SRF 2007, paper TUP14 (2007)

"Progress on Large Grain and Single Grain Niobium Ingots and Sheet and Review of Progress on Large Grain and Single Grain Niobium Cavities"
P. Kneisel
http://www.pku.edu.cn/academic/srf2007/proceeding.html ; SRF2007, paper TH102 (2007)

"Measurement of the high-field Q-drop in a large-grain niobium cavity for different oxidation processes "
G. Ciovati, P. Kneisel, A. Gurevich
Phys.Rev. Special Topics 10, 062002, (2007)

"A coaxial TE011 cavity and a system to measure DC and RF properties of superconductors"
G. Ciovati, P. Kneisel, G. R. Myneni, M. Morrone, R. Bundy, B. Clemens, T. Elliott, G. Slack, L. Turlington, Jayanta Mondal
http://www.pku.edu.cn/academic/srf2007/proceeding.html ; SRF2007, paper TUP01 (2007)

"QE measurements of a NB-Pb SRF Photoinjector"
. Smedley, T. Rao, J. Warren, P. Kneisel, J. Sekutowicz, J. Iversen, D. Klinke, D. Kostin, W. Möller, A. Muhs, P. Strzyżewski
Proc. ERL 2007, (2007)

"Tests of Superconducting Materials in a High-Q RF Cavity"
C. D. Nantista, I. E. Campisi, A. Canabal,V. A. Dolgashev, Y. Iwashita, P. Kneisel, T. Tajima, S. G. Tantawi
http://accelconf.web.cern.ch/accelconf , LINAC 2006, paper TUP027 (2006)

"Performances of High-Purity Niobium Cavities with Different Grain Sizes"
G. Ciovati, P. Kneisel, G.R. Myneni and S. Chattopadhyay
Proc. LINAC2006, (2006)

"Investigation of Hot-Spots" as a Function of Material Removal in a Large-Grain Niobium Cavity"
G. Ciovati and P. Kneisel
Proc. LINAC2006 (2006)

Peter Kneisel's Publications

as of 12/08

"Coaxial Hom Coupler Designs Tested on a Single Cell Niobium Cavity"
P. Kneisel, G. Wu , G. Ciovati and J. Sekutowicz
Proc. LINAC2006 (2006)

"Prototyping of a Superconducting Elliptical Cavity for a Proton LINAC"
W. Hartung, J. Bierwagen, S. Bricker, C. Compton, T. Grimm, M. Johnson, D. Meidlinger, J. Popielarski, L. Saxton, R. C. York,G. W. Foster, I. Gonin, T. Khabiboulline, N. Solyak, R. Wagner, V. Yarba, P. Kneisel
Proc. LINAC2006 (2006)

"The JLab Ampere-Class Cryomodule Conceptual Design"
R.A. Rimmer†, G. Ciovati, E.F. Daly, T. Elliott, W.R. Hicks, J. Henry, P. Kneisel, S. Manning, R.Manus, J. Preble, M. Stirbet, K. Smith, L. Turlington, L. Vogel, H. Wang, K.M. Wilson, G. Wu
Proc. EPAC 2006, paper MOPCH 182 (2006)

"Nb-Pb Superconducting RF-Gun"
J. Sekutowicz, J. Iversen, D. Klinke, D. Kostin, W.D. Moller, I. Ben-Zvi, A. Burrill, J. Smedley, T. Rao, J. Langner, P. Strzyzewski, P. Kneisel, R. Lefferts, A. Lipski, K. Szalowski, K. Ko, L. Xiao, M. Ferrario, J. B. Rozenweig
Proc. EPAC 2006, paper THPLS 092 (2006)

"Latest Developments in Superconducting RF Structures for Beta=1 Particle Acceleration"
P. Kneisel
Proc. EPAC 2006, paper WEXPA01 (2006)

"Measurement of the high-field Q drop in the TM010 and TE011 modes in a niobium cavity"
G. Ciovati, P. Kneisel
Phys. Rev. Special Topics 9, 042001 (2006)

"Cavity Preparation /Assembly Techniques and Impact on Q, realistic Q-factors in a module, review of modules"
P. Kneisel
Proc. ERL 2005 (2005)

"Performance of Large Grain and Single Crystal Niobium Cavities"
P. Kneisel, G.R. Myneni, G. Ciovati, J. Sekutowicz, T. Carneiro,
Proc. SRF 2005, paper MoP09 (2005)

Peter Kneisel's Publications

as of 12/08

"Characterization of an elliptical low beta multi-cell structure for pulsed operation"
P.Pierini, A. Bosotti, C. Pagani,N. Panzeri, G. Ciovati, P. Kneisel
Proc. SRF 2005, paper ThP62 (2005)

"RF Design and Operating Performance of the BNL/AES 1.3 GHZ Single Cell Superconducting RF Photocathode Electron Gun"
M. Cole. P. Kneisel, I. Ben-Zvi, A Burrill, H. Hahn, T. Rao, Y. Zhao
Proc. PAC2005, paper TPPE061 (2005)

"Investigation of Ingot Material with Large Grain for RF Cavities"
X. Singer, A. Brinkmann, H.G. Brokmeier, J. Iversen, P. Kneisel, G.R.Myneni, E. Schulz, W. Singer
Proc. SRF 2005, paper TuP58 (2005)

"Preliminary Results on the Simultaneous Excitation of the TM010 and TE011 Modes in a Single Cell Niobium Cavity"
G. Ciovati, P. Kneisel
Proc. PAC2005, paper TPPT071 (2005)

"Design of a Low Loss SRF Cavity for the ILC"
J. Sekutowicz, K. Ko, L. Ge, L. Lee, Z. Li, C. Ng, G. Schussman, L. Xiao, I. Gonin, T. Khabibouline, N. Solyak, Y. Morozumi, K. Saito, P. Kneisel
Proc. PAC2005, paper TPPT056 (2005)

"Effects of Electric and Magnetic Fields on the Performance of a Superconducting Cavity"
G. Ciovati, P. Kneisel, J. Sekutowicz, W. Singer
Proc. PAC2005, paper TPPT072 (2005)

"Influence of Ta Content in High Purity Niobium on Cavity Performance"
T. Rao, I. Ben-Zvi, A. Burrill, H. Hahn, D. Kayran, Y. Zhao, P. Kneisel ,M. Cole
Proc. PAC2005, paper TPPT075 (2005)

"Preliminary Results from Single Crystal and Very Large Crystal Niobium Cavities"
P. Kneisel, G.R. Myneni, G. Ciovati, J. Sekutowicz, T. Carneiro
Proc. PAC2005, paper TPPT076 (2005)

"Photoemission Studies on BNL/AES/JLAB all Niobium, Superconducting RF Injector"
P. Kneisel, G. Ciovati, G.R. Myneni and G. Wu, J. Sekutowicz
Proc. PAC2005, paper WPAP038 (2005)

Peter Kneisel's Publications

as of 12/08

"Testing of HOM Coupler Designs on a Single Cell Niobium Cavity"
P. Kneisel, G. Ciovati, G. R. Myneni, W.Singer, X. Singer, D. Proch,T. Carneiro
Proc. PAC2005, paper TPPT077 (2005)

"Progress on Lead Photocathodes for Superconducting Injectors"
John Smedley, Triveni Rao, Jacek Sekutowicz, Peter Kneisel, J. Langner, P. Strzyżewski, Richard Lefferts, Andrzej Lipski
Proc. PAC2005, paper WPAP039 (2005)

"Preliminary Results from a Superconducting Photocathode Sample Cavity"
P. Kneisel, J. Sekutowicz, R. Lefferts and A. Lipski
Proc. PAC2005, paper WPAP047 (2005)

"SRF Accelerator Technology Transfer Experience From the Achievement of the SNS Cryomodule Production Run"
J. Hogan, T. Cannella, E. F. Daly, M. Drury, J. Fischer, T. Hiatt, P. Kneisel, J. Mammosser, J. Preble, T. Whitlatch, K. Wilson, M. Wiseman
Proc. PAC 2005, paper RPPE061 (2005)

"First Cryogenic Tests with JLab's New Upgrade Cavities"
P. Kneisel, G. Ciovati, G.R. Myneni, G. Wu, J. Sekutowicz, J. Halbritter
Proc. LINAC2004, paper MOP84 (2004)

"Influence of TA Content in High Purity Niobium on Cavity Performance: Preliminary Results"
P. Kneisel , G.R. Myneni , D. Proch, W. Singer, X. Singer, T. Carneiro, C. Klinkenberg, M. Imagumbai
Proc. LINAC2004, paper MOP85 (2004)

"Experimental Study of an 805 MHz Cryomodule for the Rare Isotope Accelerator"
T. L. Grimm, S. Bricker, C. Compton, W. Hartung, M. Johnson, F. Marti, J. Popielarski, R. C. York, G. Ciovati, P. Kneisel, L. Turlington
Proc. LINAC2004, paper MHP70 (2004)

"RF Test of the beta=0.5 five Cell Trasco Cavity"
A.Bosotti, C.Pagani, P.Pierini,J.P.Charrier, B.Visentin, G. Ciovati, P.Kneisel
Proc. EPAC2004, paper TUPKF026, (2004)

"Development of a Niobium Bellows for Beamline Connections"
L. Turlington, J. Brawley, B. Manus, S. Manning, S. Morgan, G. Slack, P. Kneisel
Proc. 11th Workshop on RF Superconductivity (2003)

Peter Kneisel's Publications

as of 12/08

"Surface Characterization: what has been done , what has been learnt?"
P. Kneisel
Proc. 11th Workshop on RF Superconductivity (2003)

"Effect of low temperature baking on niobium cavities"
G. Ciovati, P. Kneisel , G. Myneni, W. A. Lanford
Proc. 11th Workshop on RF Superconductivity (2003)

"Development of Superstructures for high current application"
J. Sekutowicz, P. Kneisel, G. Wu
Proc. 11th Workshop on RF Superconductivity (2003)

"Status Report on Multi-Cell Superconducting Cavity Development for Medium-Velocity Beams"
W. Hartung, C. Compton, T. Grimm, R. York , G. Ciovati, P. Kneisel
Proc. Particle Accelerator Conference (2003)

"Cryomodule Design for the Rare Isotope Accelerator "
T. Grimm, W. Hartung, M. Johnson, R. York , P. Kneisel, L. Turlington
Proc. Particle Accelerator Conference (2003)

"Design, Construction and Status of an All Niobium Superconducting Photoinjector at BNL "
T. Srinivasan-Rao, I. Ben-Zvi, A. Burrill, G. Citver, A. Hershcovitch, D. Pate, A. Reuter, J. Scaduto, Q. Zhao, Y. Zhao , H. Bluem, M. Cole, A. Favale, J.W. Rathke, T.J. Schultheiss , J. Delayen, P. Kneisel
Proc. Particle Accelerator Conference (2003)

"Preliminary Studies of Electric and Magnetic Field Effects in Superconducting Niobium Cavities"
G. Ciovati, P. Kneisel, G. Myneni, J. Sekutowicz, A. Brinkmann, W. Singer, J. Halbritter
Proc. Particle Accelerator Conference (2003)

"Improved Prototype Cryomodule for the CEBAF 12 GeV Upgrade"
E. Daly, I. Campisi, J. Henry, W.R. Hicks, J. Hogan, P. Kneisel, D. Machie, C. Reece, T. Rothgeb, J. Sekutowicz, K. Smith, T. Whitlatch, K.M. Wilson, M. Wiseman
Proc. Particle Accelerator Conference (2003)

"Cavities for JLAB's 12 GeV Upgrade"
J. Sekutowicz, G. Ciovati, P. Kneisel, G. Wu, A. Brinkmann, R. Parodi ,W. Hartung , S. Zheng
Proc. Particle Accelerator Conference (2003)

Peter Kneisel's Publications

as of 12/08

"Superstructures for High Current FEL Application "
J. Sekutowicz, K. Beard, P. Kneisel, G. Wu , C. Thomas , S. Zheng
Proc. Particle Accelerator Conference (2003)

"SNS Cryomodule Performance"
J.Preble, I. campisi, E. Daly, G.K.Davis, J. Delayen,M. Drury, C. Grenoble, J. Hogan, L. King, P. Kneisel, J. Mammosser, T. Powers, M. Stirbet, H. Wang, T. Whitlatch, M. Wiseman
Proc. Particle Accelerator Conference (2003)

"Gradient Optimization for SC CW Accelerators"
W.J. Schneider, P. Kneisel, C.H. Rode
Proc. Particle Accelerator Conference (2003)
-2003

"State of the Art of Multicell SC Cavities and Perspectives"
P. Kneisel
Proc. EPAC 2002, p. 139 (2002)

"Input Coupling and Higher-Order Mode Analysis of Superconducting Axisymmetric Cavities for the Rare Isotope Accelerator "
T.L. Grimm, W. Hartung, F. Marti, H. Podlech, R.C. York; L. Kempel, J. Popielarski, C. Wiess, G. Ciovati, P. Kneisel
Proc. EPAC2002, p. 2277 (2002)

"Superconducting Prototype Cavities for the Spallation Neutron Source (SNS) Project"
P. Kneisel, G. Ciovati, K. Davis, K. Macha, J. Mammosser
Proc. EPAC2002, p. 2247 (2002)

"RF Tests of the Single Cell Prototypes for the TRASCO beta=0.47 Cavities"
P. Pierini, D. Barni, A. Bosotti, C. Pagani, R. Paulon, H. Safa, G. Ciovati, P. Kneisel
Proc. EPAC 2002, p.2241 (2002)

"Superconducting Prototype Cavities for the Spallation Neutron Source (SNS) Project "
G. Ciovati, P. Kneisel, et al.
Proc. 2001 Part.Acc. Conf., Chicago (2001)

"Hydro forming of TESLA cavities at DESY"
W. Singer, I. Gonin*, I. Jelezov*, H. Kaiser, T. Khabibuline*, P. Kneisel**, K. Saito***, and X. Singer
Proc. 10th Workshop on RF Superconductivity, Tsukuba, to be published (2001)

Peter Kneisel's Publications

as of 12/08

"Hydro forming of NbCu Clad cavities at DESY"
W. Singer, X. Singer, K. Twarowski, I. Jelezov, T. Khabibuline, A. Skasyrskaia, P. Kneisel
Proc. 10th Workshop on RF Superconductivity, Tsukuba, to be published (2001)

"Superconducting Prototype Cavities for the Spallation Neutron Source (SNS) Project "
G. Ciovati, P. Kneisel, et al
Proc. 10th Workshop on RF Superconductivity, Tsukuba, to be published (2001)

"Is there an alternative to the present upgrade scenario"
P. Kneisel
JLab-TN-01-013 (2001)

"A Betag = 0.472 Cavity for RIA"
D. Barni, G. Ciovati, P. Kneisel, C. Pagani, P. Pierini, P. Ylae-Oijala
JLab-TN-01-014 (2001)

"An Improved Cavity Design for the CEBAF Upgrade"
D. Barni, C. Ciovati, P. Kneisel, J. Sekutowicz
JLab-TN-01-15 (2001)

"Superconducting Prototype Cavities for the Spallation Neutron Source (SNS) Project "
G. Ciovati, P. Kneisel, J. Brawley, R. Bundy, I.E. Campisi, K. Davis, K. Macha, D. Machie, J. Mammosser, S. Morgan, R. Sundelin, L. Turlington, K.M. Wilson, J. Sekutowicz, D. Barni, C. Pagani, R. Parodi, P. Pierini
Proc. 2001 PAC, p. 484 (2001)

"The Fundamental Power Coupler - Prototype for the Spallation Neutron Source (SNS)"
I.E. Campisi, E.F. Daly, J.E. Henry, P. Kneisel, W.J. Schneider, M. Stirbet, K.M. Wilson
Proc. PAC 2001, p.1140 (2001)

"Niobium Cavity Development for the High-Energy Linac of the Rare Isotope Accelerator"
C.C. Compton, T.L. Grimm, W. Hartung, H. Podlech, R.C. York, D. Barni, C. Pagani, P. Pierini, G. Ciovati, P. Kneisel
Proc. PAC 2001, p.1044 (2001)

Peter Kneisel's Publications

as of 12/08

"Testing Procedures and Results of the Prototype Fundamental Power Coupler for the Spallation Neutron Source "
M. Stirbet, I.E. Campisi, E.F. Daly, G.K. Davis, M. Drury, P. Kneisel, G. Myneni, T. Powers, W.J. Schneider, K.M. Wilson, K.A. Cummings, T. Hardek, Y. Kang
Proc. PAC 2001, p. 1125 (2001)

"Electromagnetic Simulations and Properties of the Fundamental Power Couplers for the SNS Superconducting Cavities"
Y. Kang, M. Doleans, S. Kim, P. Ylä-Oijala sinki, I.E. Campisi, G. Ciovati, P. Kneisel, M. Stirbet, G. Wu
Proc. PAC 2001, p.1122 (2001)

"Design of the SNS Cryomodule"
W.J. Schneider, I.E. Campisi, E.F. Daly, T. Hiatt, J. Hogan, P. Kneisel, D. Machie, J. Preble, C.H. Rode, T. Whitlatch, K.M. Wilson, M.A. Wiseman, K. Matsumoto, R. Mitchell
Proc. PAC 2001, p. 1160 (2001)

"The prototype fundamental power coupler for the Spallation Neutron Source cavities: design and initial test results"
K. M. Wilson † , I. E. Campisi, E. F. Daly, G. K. Davis,M. Drury, J. E. Henry, P. Kneisel, G.Myneni, T. Powers, W. J. Schneider, M. Stirbet, Y. Kang, K. Cummings, T. Hardek
Proc. 10th Workshop on RF Superconductivity, Tsukuba, Japan 2001 (2001)

"Electric surface resistance RE(T, f, E^) of Nb/Nb2O5-y-interfaces and Q-drop of Superconducting Nb cavities"
J. Halbritter, P. Kneisel, V. Palmieri, M. Pekeler
Proc. Acc. School, Erice (2000)

"Development of Seamless Cavities for Accelerator Application"
P. Kneisel, V. Palmieri
Proc. 1999 Particle Accelerator Conference, New York (1999)

"Superconducting cavity Development for the CEBAF Upgrade"
I. Campisi, J. Delayen, L. Doolittle, P. Kneisel, J. Mammosser, L. Phillips
Proc. 1999 Particle Accelerator Conference, New York (1999)

"Preliminary Experience with "In-situ" baking of Niobium Cavities"
P. Kneisel
Proc. 9th Workshop on RF Superconductivity, Santa Fe, p. 328 (1999)

"Temperature Dependence of the Surface Resistance of Niobium at 1300 MHz – Comparison to BCS Theory"
K. Saito, P. Kneisel
Proc. 9th Workshop on RF Superconductivity, Santa Fe, p. 277 (1999)

Peter Kneisel's Publications

as of 12/08

"HighGradient Superconducting Cavities - A Review of the Present Status"
P. Kneisel
Proc. Appl. Superconductivity Conf.; CEBAF TN 98-044 (1998)

"Results from the first 7-cell Cavity for the CEBAF Upgrade"
P. Kneisel, J. Brawley, L. Turlington
CEBAF TN 98-019 (1998)

"Contamination Issues in SRF Technology"
P. Kneisel
Proc. Contamination Workshop at CEBAF, Vol. 2 (1997)

"Superconducting Radio Frequency Technology: Understanding and Improvements of Limitations through Application of Cryogenic Instrumentation"
P. Kneisel
Adv. in Cryogenic Eng. 43 (1997), to be published (1997)

"A Selection of Higher Gradient Cavity Experiments"
P. Kneisel
Proc. 8th SRF Workshop, Abano Therme, Italy, Report LNL-INFN 133/98, p.830 (1997)

"Performance of 1300 Mhz KEK Type Single Cell Niobium Cavities"
P.Kneisel, K. Saito, R. Parodi
Proc. 8th SRF Workshop, Abano Therme,Italy, Report LNL-INFN 133/98, p.463 (1997)

"Results from some Temperature Mapping Experiments on Nb3Sn RF Cavities"
P. Boccard, P. Kneisel ,G. Mueller, J. Pouryamout, H. Piel
Proc. 8th SRF Workshop, Abano Therme, Italy (1997), Report LNL-INFN 133/98, p. 1094 (1997)

"Advanced Surface Cleaning Methods...."
P.Kneisel, B.Lewis
Part.Accelerators 53, 97 ff (1996)

"Nb3Sn layers on High Purity Nb Cavities with very high Quality Factors and Accelerating Gradients"
G.Mueller, P.Kneisel, et al.
Proc. EPAC, Barcelona, Spain (1996)

"Effect of Cavity Vacuum on Performance on Performance of Superconducting Niobium Cavities"
P. Kneisel
CEBAF TN # 95-075 and Proc. 7th SRF-Workshop, p.443 , Saclay (1995)

Peter Kneisel's Publications

as of 12/08

"Results from a nearly "Defect-free" Niobium Cavity "
P.Kneisel, R.W.Roeth, H.G.Kuerschner
CEBAF TN # 95-076 and Proc. 7th SRF - Workshop, p.449, Saclay (1995)

"Arcing Phenomena on CEBAF RF-Windows at Cryogenic Temperatures"
T.Powers, P.Kneisel
CEBAF TN # 96-002 and Proc. 7th SRF - Workshop, p. 713, Saclay (1995)

"Arcing Phenomena on CEBAF RF-Windows at Cryogenic Temperatures"
T.Powers, P.Kneisel, R.Allen
Proc. 1995 Part.Acc. Conf., Dallas (1995)

"Potential Application of Metal Oxides for Cryogenic Beamline Vacuum Systems"
M.G.Rao, P.Kneisel
Proc. PAC (1995)

"Experience with High Pressure Ultrapure Water Rinsing of Niobium Cavities "
P.Kneisel, B.Lewis, L.Turlington
Proc. 6th Workshop on Rf-Superconductivity (CEBAF) , p.628 (1994)

"Mechanical Properties of High RRR Niobium at Cryogenic Temperatures"
M.G.Rao, P.Kneisel
Adv.in Cryogenic Engineering, Vol. 40 , p.1383 (1994)

"Cryosorption Pumping of H2 and He with Metals and Metal Oxides at 4.3K"
M.G.Rao, P.Kneisel, J.Susta
Cryogenics 1994, Vol. 34 ICEC Supplement , p.377 (1994)

"Effect of Chemical Polishing on the Electron Field Emission of Niobium
E.Mahner, P.Kneisel, N.Pupeter, G.Müller
Proc. 6th Workshop on Tf-Superconductivity (CEBAF), p.1085 (1994)

"Additional RF-Surface Resistance in Superconducting Niobium Cavities caused by Trapped Magnetic Flux"
P.Kneisel, B.Lewis
CEBAF Techn. Note TN 94-028, (1994)

"The effect of physisorbed gases on the performance of superconducting niobium radio frequency cavities"
P.Kneisel, M.G.Rao
AVS – meeting (1994)

Peter Kneisel's Publications

as of 12/08

"RF-Superconductivity Technology - Its Sensitivity to Surface Conditions"
P.Kneisel
J.Vac.Sci.Technol. A11(4) (1993)

"Performance of a CEBAF Production Cavity after High Temperature Heat
P.Kneisel, M.G.Rao
Proc. 1993 Part.Acc. Conf., p.927 (1993)

"Performance of a 1500 MHz Niobium Cavity with 2K Channel Cooling"
J.Susta,P.Kneisel,M.Wiseman
Proc. 1993 Part.Acc.Conf., p.1060 (1993)

"Photo-Emission Phenomena on CEBAF RF-Windows at Cryogenic Temperatures"
T.Powers, P.Kneisel, M.Vaidya
Proc. 1993 Part.Acc.Conf., p.1010 (1993)

"Solvents and Pumpdown Characteristics of SRF - Niobium Cavities"
M.G.Rao, P.Kneisel, F.Dylla
Proc. 1993 Part.Acc.Conf., p.3867 (1993)

"Observation of Q-Degradation in Superconducting Niobium Cavities due to Cooldown Conditions"
K.Saito, P.Kneisel
Proc. 5th Workshop on RF Superconductivity , Report DESY M-92-01 , Vol.2, p.665 (1992)

"Improvements in Materials and Fabrication - Large Scale Production and Testing"
P.Kneisel
Proc. 5th Workshop on Rf Superconductivity , Report DESY M-92-01, Vol. 1 ,p.163 (1992)

"Q-Degradation in High Purity Niobium Cavities - Dependence on Temperature and RRR-Value -"
K.Saito, P.Kneisel
Proc. 3rd European Prt.Acc.Conf. EPAC 1992 , p. 1231 (1992)

"Superconducting Cavities with High Gradients"
P.Kneisel, K.Saito
1992Lin.Acc.Conf.Proc., Vol.1 , p.160 (1992)

Peter Kneisel's Publications

as of 12/08

"Development of a Superconducting Cavity for High Gradient Accelerators"
K.Saito, P.Kneisel, et. al.
Proc. of the 1992 High Energy Acc. Conf. , Hamburg (1992)

"Superconducting Cavities from High Thermal Conductivity Niobium for CEBAF"
P.Kneisel, J.Mammosser, M.G.Rao, K.Saito, M.Peiniger
Proc. of the Conf. on Electron Beam Melting and Refining - State of the Art, p. 177, Reno, Nevada (1991)

"Performance of Superconducting Cavities for CEBAF"
P.Kneisel, J.Mammosser, G.Rao, K.Saito, R.Sundelin
Proc. 1991 IEEE Part.Acc.Conf. , Vol. 4 , p.2384 (1991)

"RF-Superconductivity - Present Status and Future Developments"
P.Kneisel
Part.Acc. 29, pp 1 – 10 (1990)

"Use of the Titanium Solid State Gettering Process for the Improvement of the Performance of Superconducting RF-Cavities"
P.Kneisel
Journ.Less Comm.Metals 139, 179 (1988)

"Investigation of the Surface Resistance of Superconducting Niobium using Thermometry in Superfluid Helium"
P.Kneisel, G.Müller, C.Reece;
IEEE on Magn,;MAG-23(2), 1417 (1987)

"Test of Superconducting Accelerator Structures in a Closed Vacuum System"
P.Kneisel
Proc. 1987 Part.Acc.Conf., p.1893 , Washington, DC (1987)

"RF - Superconductivity "
P.Kneisel
Advanced Accelerator Concepts , AIP Conf. Proc. 156, 145 (1986)

"Performance of Superconducting Storage Ring Cavities at 1500 MHz"
P.Kneisel, et al.
IEEE Trans. on Magn.,MAG-21, 1000 (1985)

"Development of Sensitive Thermometers for Calibrated Surface Temperature Measurements of Niobium Cavities Immersed in Superfluid Helium"
G.Müller, P.Kneisel
Report SRF-851201EX , Lab.Nucl.Studies, Cornell Univ. (1985)

Peter Kneisel's Publications

as of 12/08

"Clean Work and its Consequences - Contamination Control Considerations"
P.Kneisel
Proc. 2nd Workshop on RF-Superconductivity, p. 502ff,CERN (1984)

"Superconducting Cavity Beam Test in CESR"
R.Sundelin, et al .
IEEE Trans.Nucl.Sci.,NS-30,3336 (1983)

"Development of Superconducting Cavities of Cylindrical Shape at Cornell"
P.Kneisel, et al.
IEEE Trans.Nucl.Sci.,NS-30,3348 (1983)

"Field Limitations in Superconducting Cavities - Multipacting and Thermal Breakdown"
H.Padamsee, D.Proch, P.Kneisel, J.Mioduszewski
IEEE Trans. on Magn., MAG-17(1),947 (1981)

"First Results on a 500 MHz Superconducting Test Cavity for TRISTAN"
T.Furuya, T.Hiramatsu, T.Nagazato, T.Kato, P.Kneisel, Y.Kojima, T.Tagaki
IEE Trans.Nucl.Sci, NS-28, 3225 (1981)

"First Results on Elliptically Shaped Cavities"
P.Kneisel, R.Vincon, J.Halbritter
Nucl.Instr.& Meth. 188, 669 (1981)

"Surface Preparation of Niobium"
P. Kneisel
Proc. Workshop on RF-Superconductivity, p.27 ff, Kernforschungszentrum Karlsruhe (1980)

"Design Studies for a 1500 MHz Superconducting Accelerator Cavity for Use in a e+e- -Storage Ring"
J.Kirchgessner, P.Kneisel, H.Padamsee, J.Peters, D.Proch, R.Sundelin, M. Tigner
Proc. 11th Int.Conf. on High Energy Acc. , p. 886 ff , CERN (1980)

"Properties of Superconducting Nb3Sn-Layers used in RF-cavities"
P.Kneisel, H. Kupfer, O. Stoltz, J. Halbritter
Adv. in Cryogenic Eng. 24, 442 (1978)

"Nb3Sn for Superconducting RF-Cavities"
P.Kneisel, O.Stoltz, J.Halbritter
Adv. in Cryogenic Eng. 22,341 (1976)

Peter Kneisel's Publications

as of 12/08

"Tests on S-Band Superconducting Niobium Prototype Accelerator Structures"
P.Kneisel, C.Lyneis, J.P.Turneaure
IEEE Trans.Nucl.Sci.,NS-22,1197 (1975)

"On the Role of Electrons in RF-Breakdown"
C.M.Lyneis, P.Kneisel, O.Stoltz, J.Halbritter;
IEEE Trans.Mag.,MAG-11(2),417 (1975)

"Zur Abhängigkeit des Oberflächenwiderstandes anodisierter Niob-Resonatoren von der Hochfrequenzfeldstärke zwischen 2 und 4 GHz "
P.Kneisel
J.Appl. Phys. 45, 2296 (1974)

"On Breakdown Fields of a Superconducting Niobium Cavity at S-Band"
P.Kneisel, O.Stoltz, J.Halbritter
J.Appl.Phys. 45, 2302 (1974)

"On Surface Preparation and Measurement of Niobium used in High Frequency Cavities"
P.Kneisel, O.Stoltz, J.Halbritter
J.Appl. Phys. 45, 2296 (1974)

"Investigation of a Superconducting Beam Tube Cavity at S - Band"
P.Kneisel, O.Stoltz, J.Halbritter
IEEE Trans.Nucl.Sci.,NS-20,63 (1973)

"Observations on Electron Loading in Superconducting Cavities"
P.Kneisel, O.Stoltz, J.Halbritter
J.Appl.Phys. 44,1785 (1973)

"Investigation of the Surface Resistance of a Niobium Cavity at S - Band"
P.Kneisel, O.Stoltz, J.Halbritter
IEEE Trans.Nucl.Sci.,NS-18,158 (1971)

"Summary of Rf-Resonator Measurements at Karlsruhe"
P.Kneisel
Kernforschungszentrum Karlsruhe (1969)

"Coupling Losses and the Measurement of Q-values of Superconducting Cavities"
J.Halbritter, R.Hietschold, P.Kneisel, H.Schopper
KFK-Report 758, Kernforschungszentrum Karlsruhe (1968)

Peter Kneisel's Publications

as of 12/08

"Tritiumausbeuten der Reaktion Ni(g,t) und Pd(g,t) mit 36.2 MeV und 49.2 MeV Bremsstrahlung"
P.Kneisel, A.Goldmann, H.v.Buttlar
Zeitschr.f.Physik 199,440 (1967)

"Zur Hochfrequenzabsorption supraleitender Indiumschichten"
J.Halbritter, P.Kneisel, L.List
Ext,Ber. 3/67-10,Kernforschungszentrum Karlsruhe (1967)

"Wirkungsquerschnitte der Reaktion O16(g,t)"
A.Goldmann, P.Kneisel, H.v.Buttlar
Zeitschr.f.Physik 192,282 (1966)

"Modification of the Muffin Tin Cavity Shape to eliminate Multipacting"
P.Kneisel, H.Padamsee
CLNS-Report 79/433, Cornell University

"Development of Large Grain/Single Crystal Niobium Cavity technology at Jefferson Lab"
P. Kneisel, G.R.Myneni, G. Ciovati, J. Sekutowicz and T. Carneiro
AIP Conference Proceedings 927, p. 84

"A Single Crystal Niobium RF Cavity of the TESLA Shape"
W. Singer, X. Singer and P. Kneisel
AIP Conference Proceedings 927, p. 133