

1998 PUBLICATIONS

Publications and invited talks by non-NSCL scientists which are based in whole or in part on experimental work at the NSCL are tagged with the symbol #.

PAPERS

(a) Physical Review Letters

Vortex Pinning of Anisotropically Splayed Defects in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$; W.K. Kwok, L.M. Paulius, V.M. Vinokur, A.M. Petrean, R.M. Ronningen, and G.W. Crabtree, Phys. Rev. Lett. **80**(1998)600

Study of the $^{56}\text{Ni}(d,p)^{57}\text{Ni}$ Reaction and the Astrophysical $^{56}\text{Ni}(p,\gamma)^{57}\text{Cu}$ Reaction Rate; K.E. Rehm, F. Borasi, C.L. Jiang, D. Ackermann, I. Ahmad, B.A. Brown, F. Brumwell, C.N. Davids, P. Decrock, S.M. Fischer, J. Görres, J. Greene, G. Hackman, B. Harss, D. Henderson, W. Henning, R.V.F. Janssens, G. McMichael, V. Nanal, D. Nisius, J. Nolen, R.C. Pardo, M. Paul, P. Reiter, J.P. Schiffer, D. Seweryniak, R.E. Segel, M. Wiescher, and A.H. Wuosmaa, Phys. Rev. Lett. **80**(1998)676

Correlations in Nuclear Arrhenius-Type Plots; M.B. Tsang and P. Danielewicz, Phys. Rev. Lett. **80**(1998)1182

Probing Proton Halos Through Pion Photoproduction; S. Karataglidis and C. Bennhold, Phys. Rev. Lett. **80**(1998)1614

Quadrupole Collectivity in $^{32,34,36,38}\text{Si}$ and the $N=20$ Shell Closure; R.W. Ibbotson, T. Glasmacher, B.A. Brown, L. Chen, M.J. Chromik, P.D. Cottle, M. Fauerbach, K.W. Kemper, D.J. Morrissey, H. Scheit, and M. Thoennessen, Phys. Rev. Lett. **80**(1998)2081

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Temperatures of Exploding Nuclei; V. Serfling, C. Schwarz, R. Bassini, M. Begemann-Blaich, S. Fritz, S.J. Gaff, C. Gross, G. Immé, I. Iori, U. Kleinevoss, G.J. Kunde, W.D. Kunze, U. Lynen, V. Maddalena, M. Mahi, T. Möhlenkamp, A. Moroni, W.F.J. Müller, C. Nociforo, B. Ocker, T. Odeh, F. Petruzzelli, J. Pochozalla, G. Raciti, G. Riccobene, F.P. Romano, A. Saija, M. Schnittker, A. Schüttauf, W. Seidel, C. Sfienti, W. Trautmann, A. Trzcinski, G. Verde, A. Wörner, H. Xi, and B. Zwieglinski, Phys. Rev. Lett. **80**(1998)3928

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Nuclear Temperature Measurements with Helium Isotopes; H. Xi, M.B. Tsang, M.J. Huang, W.G. Lynch, J.D. Dinius, S.J. Gaff, C.K. Gelbke, T. Glasmacher, G.J. Kunde, L. Martin, C.P. Montoya, M. Azzano, G.V. Margagliotti, P.M. Milazzo, R. Rui, G. Vannini, L. Celano, N. Colonna, G. Tagliente, M. D'Agostino, M. Bruno, M.L. Fiandri, F. Gramegna, A. Ferrero, I. Iori, A. Moroni, F. Petruzzelli, and P.F. Mastinu, Phys. Lett. **B431**(1998)8

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Invariant Mass Spectrum and alpha-n Correlation Function Studied in the Fragmentation of ^6He on a Carbon Target; D.Aleksandrov, T.Aumann, L.Axelsson, T.Baumann, M.J.G.Borge, L.V.Chulkov, J.Cub, W.Dostal, B.Eberlein, Th.W.Elze, H.Emling, H.Geissel, V.Z.Goldberg, M.Golovkov, A.Grünschloss, M.Hellström, J.Holeczek, R.Holzmann, B.Jonson, A.A.Korshennikov, J.V.Kratz, G.Kraus, R.Kulesa, Y.Leifels, A.Leistenschneider, T.Leth, I.Mukha, G.Munzenberg, F.Nickel, T.Nilsson, G.Nyman, B.Petersen, M.Pfützer, A.Richter, K.Riisager, C.Scheidenberger, G.Schrieder, W.Schwab, H.Simon, M.H.Smedberg, M.Steiner, J.Stroth, A.Surowiec, T.Suzuki, O.Tengblad, and M.V.Zhukov, Nucl. Phys. **A633**(1998)234

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