

Annual 2002 Physics Department Publications

File #2002-01, (J. Wu), I. Miotkowski, A. K. Ramdas, et al., "Band anticrossing effects in $\text{Mg}_y\text{Zn}_{1-y}\text{Te}_{1-x}\text{Se}_x$ alloys," *Appl. Phys. Lett.* 80, (1), 34-36, 7 Jan. (2002).

File #2002-02, (M. Crogan), S. Khlebnikov, and G. Sadiq, "Controlled transfer of quantum amplitude via modulation of a potential barrier: numerical study in a model of SQUID," *Supercond. Sci. Technol.* 15, 8-11, (2002).

File #2002-03, (T. Affolder), V. E. Barnes, G. Bolla, D. Bortoletto, A. F. Garfinkel, C. Green, M. Guenther, A. D. Hardman, K. D. Hoffman, T. A. Keaffaber, A. T. Laasanen, A. Pompos, et al., (CDF Collaboration), "Cross section and heavy quark composition of $\gamma + \mu$ events produced in $p\bar{p}$ collisions," *Phys. Rev. D* 65, (012003), 7 pages, 1 Jan. (2002).

File #2002-04, Y. X. Feng and Wei Cui, "Discovery of Two Types of X-Ray Dips in Cygnus X-1," *Astrophys. J.* 564, (2), 953-961, Jan. 10, (2002).

File #2002-05, Wei Cui, Y-X. Feng, and M. Ertmer, "A Peculiar Flaring Episode of Cygnus X-1," *Astrophys. J. Lett.* 564, (2), L77-L80, Jan. 10, (2002).

File #2002-06, (S. K. Saha) Z. W. Grabowski, et al., "Excitations of two- and three-valence-proton nuclei ^{134}Te and ^{135}I ," *Phys. Rev. C* 65, (017302), 4 pages, Jan. (2002).

File #2002-07, (P. Achard), N. Batalova, L. J. Gutay, M. Kopal, D. O. Prokofiev, et al. (L3 Collaboration), "Inclusive π^0 and K_S^0 production in two-photon collisions at LEP," *Phys. Lett. B*, (1-2), 44-54, 3 Jan. (2002).

File #2002-08, (P. Achard), N. Batalova, L. J. Gutay, M. Kopal, D. O. Prokofiev, et al. (L3 Collaboration), "Bose-Einstein correlations of neutral and charged pions in hadronic Z decays," *Phys. Lett. B*, (1-2), 55-64, 3 Jan. (2002).

File #2002-09, (P. Achard), N. Batalova, L. J. Gutay, M. Kopal, D. O. Prokofiev, et al. (L3 Collaboration), "Search for R-parity violating decays of supersymmetric particles in e^+e^- collisions at LEP," *Phys. Lett. B*, (1-2), 65-80, 3 Jan. (2002).

File #2002-10, (K. N. Barish), A. S. Hirsch, R. P. Scharenberg, et al., "Leading baryon production in $p + A$ collisions at relativistic energies," *Phys. Rev. C* 65, (014904), 11 pages, Jan. (2002).

File #2002-11, (T. A. Armstrong), R. Davies, A. S. Hirsch, R. P. Scharenberg, M. L. Tincknell, et al., "Production of particle unstable light nuclei in 11.5A GeV/c Au+Pt heavy-ion collisions," *Phys. Rev. C* 65, (014906), 9 pages, Jan. (2002).

File #2002-12, (K. W. Edwards), S. Chen, J. W. Hinson, J. Lee, D. H. Miller, V. Pavlunin, E. I. Shibata, I. P. J. Shipsey, et al., (CLEO Collaboration), “First observation of $\bar{B}^0 \rightarrow D^{*0}\pi^+\pi^-\pi^-\pi^-$ decays,” Phys. Rev. D 65, (012002), 5 pages, 1 Jan. (2002).

File #2002-13, (R. Godang), S. Chen, J. Fast, J. W. Hinson, J. Lee, D. H. Miller, V. Pavlunin, E. I. Shibata, I. P. J. Shipsey, et al., (CLEO Collaboration), “Search for Charmless $B \rightarrow VV$ Decays,” Phys. Rev. Lett. 88, (021802), 4 pages, 14 Jan. (2002).

File #2002-14, (K. M. Yu), I. Miotkowski, A. K. Ramdas, et al., “Band anticrossing in group II-O_x-VI_{1-x} highly mismatched alloys: Cd_{1-x}Mn_yO_xTe_{1-x} quaternaries synthesized by O ion implantation,” Appl. Phys. Lett. 80, (9), 1571-1573, 4 March (2002).

File #2002-15, [**Erratum: File #2001-89**], (T. Affolder), V. E. Barnes, G. Bolla, D. Bortoletto, A. F. Garfinkel, C. Green, M. Guenther, A. D. Hardman, K. D. Hoffman, T. A. Keaffaber, A. T. Laasanen, A. Pompos, et al., (CDF Collaboration), “Erratum: Measurement of the two-jet differential cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV, [Phys. Rev. D, 64, 012001 (2001)],” Phys. Rev. D 65, (039902E), 1 page, 1 Feb. (2002).

File #2002-16, [**Erratum: File #2001-96**], (T. Affolder), V. E. Barnes, G. Bolla, D. Bortoletto, A. F. Garfinkel, C. Green, M. Guenther, A. D. Hardman, K. D. Hoffman, T. A. Keaffaber, A. T. Laasanen, A. Pompos, et al., (CDF Collaboration), “Erratum: Measurement of the inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, [Phys. Rev. D, 64, 032001 (2001)],” Phys. Rev. D 65, (039903E), 1 page, 1 Feb. (2002).

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File #2002-18, E. Fischbach, A. W. Overhauser, and B. Woodahl, “Corrections to Fermi’s Golden Rule in $\phi \rightarrow K\bar{K}$ decays,” Phys. Rev. B 526, (3-4), 355-359, 7 Feb. (2002).

File #2002-19, (D. C. Marinescu), G. F. Giuliani, et al., “Tunneling between dissimilar quantum wells: A probe of the energy-dependent quasiparticle lifetime,” Phys. Rev. B 65, (045325), 9 pages, 15 Jan. (2002).

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File #2002-21n, (C. Adler), Z. Ahammed, O. Barannikova, A. Cardenas, T. Herston, A. Hirsch, R.P. Scharenberg, B. Srivastava, B. Stringfellow, F. Wang, et al., (STAR Collaboration), “Results from the STAR experiment,” (Presented by John W. Harris), Proc. 15th Int. Conf. on Ultra-Relativistic Nucleus–Nucleus Collisions, Long Island, NY, 15 Jan. 2001, Nucl. Phys. A, 698, (1-4), pages 64-77, 11 Feb. (2002).

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File #2002-26, (A. Anastassov), S. Chen, J. W. Hinson, J. Lee, D. H. Miller, V. Pavlunin, E. I. Shibata, I. P. J. Shipsey, et al., (CLEO Collaboration), “First measurement of $\Gamma(D^{*+})$ and precision measurement of $m_{D^{*+}} - m_{D^0}$,” Phys. Rev. D 65, (032003), 11 pages, 1 Feb. (2002).

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File #2002-28, (T. Affolder), V. E. Barnes, G. Bolla, D. Bortoletto, A. F. Garfinkel, C. Green, M. Guenther, A. D. Hardman, K. D. Hoffman, T. A. Keaffaber, A. T. Laasanen, T. Moulik, A. Pompos, C. Rott, A. Roy, et al., (CDF Collaboration), “Measurement of the Strong Coupling Constant from Inclusive Jet Production at the Tevatron $p\bar{p}$ Collider,” Phys. Rev. Lett. 88, (042001), 6 pages, 28 Jan. (2002).

File #2002-29, (T. Affolder), V. E. Barnes, G. Bolla, D. Bortoletto, A. F. Garfinkel, C. Green, M. Guenther, A. D. Hardman, K. D. Hoffman, T. A. Keaffaber, A. T. Laasanen, T. Moulik, A. Pompos, C. Rott, A. Roy, et al., (CDF Collaboration), “Study of $B^0 \rightarrow J/\psi K^{(*)0} \pi^+ \pi^-$ Decays with the Collider Detector at Fermilab,” Phys. Rev. Lett. 88, (071801), 6 pages, 18 Feb. (2002).

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