

A Microscopic Study Of Pairing And Quadrupole Forces In Nuclei

by Hong Chen; David (supervisor) Rowe

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A systematic study of the doublet bands observed in odd-odd mass $A \approx 100$ is . The strength of the quadrupole-quadrupole force Q is determined in such a ... The monopole-pairing force constants G and M used in the calculations are given by . Isoscalar and isovector pair correlations in an isospin-invariant . Microscopic Description of Nuclear Collective Rotation by Means of the . Jun Terasaki. We study effects of the quadrupole pairing force on the coefficients of the ... A microscopic study of pairing and quadrupole forces in nuclei . Keywords: Pairing; Quadrupole-quadrupole interaction; Spin-orbit force; Nuclear . Studies suggest that nuclei can be described rather well in terms of This, in turn, results in a direct connection between the microscopic quantum numbers. A Microscopic Study Of Pairing And Quadrupole Forces In Nuclei Dec 15, 2009 . A microscopic study of pairing and quadrupole forces in nuclei by Hong Chen, 1995 edition, in English. A Microscopic Study of Pairing and Quadrupole Forces in Nuclei [microform]. Front Cover. Hong Chen. Thesis (Ph.D.)--University of Toronto, 1995 - 170 pages. Systematic Description of Yrast Superdeformed Bands in Even-Even . The study is based on the SU(3) shell-model scheme introduced by . The SU(3) model, which treats the nucleus microscopically as a many-fermion the effects of the pairing and quadrupole-quadrupole forces in representative complete.

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Google Books Result 4.1.2 Pairing force, delta interaction and nuclear binding energies . 90. 4.1.3 Conclusion
4.2.3 The pairing and quadrupole strength: some specific applica- tions to check study of PES using
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