

# Quantal Rotation By Stefan Frauendorf

**By Stefan Frauendorf**

Quantal rotation Molecules The molecular view on nuclei (Bohr-Mottelson) High spin The rotating mean field spontaneous symmetry breaking

APS Fellow Archive For work on classical and quantal phase interferometry and quantum theory including the fermion spinor-rotation experiment and

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Quantal rotation Prof. Dr. Stefan Frauendorf, HZDR and Univ. of Notre-Dame, South Bend, IN, USA (lecture notes are accessible for users of the HZDR intranet, only)

Quantal Rotation For A Triaxial Configuration - Kinouchi, Shin-ichi et al Spontaneous symmetry breaking in rotating nuclei - Frauendorf, Stefan Rev.Mod.Phys. 73

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Chapter 1 Introduction anism was proposed by Stefan Frauendorf [6] rotation is symmetrical with respect toarotation by about the J axis,

perspective. Starting from the well known rotor of classical mechanics, it discusses the properties of rotating molecules, nuclei, and hadrons from a common perspective.

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and S. Frauendorf Phys. Rev. C J. Mabiola, J. P. Mira, P. Papka, A. Ramus, J. A. Scarpaci, F. D. Smit, I. Stefan, J Rotation and deformation of the

Stefan Frauendorf Department of Although the quantal nature allow the core-particle models to In this linear order the rotation operators  $R_i$  commute and

Stefan Frauendorf Department of Physics, University of Notre Dame, The relation between this quantal motion and the shape that the system takes will be discussed.

Quantal Rotation. Frauendorf, Stefan

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Based on a common motivation, two new applications of the self-consistent cranking technique are discussed. The first allows the calculation of anharmonic effec

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