

# Applications of Nuclear Quadrupole Interactions in Materials Research\*

Zhu Shengyun

China Institute of Atomic Energy, P. O. Box 275-50, Beijing 102413, P. R. China

Z. Naturforsch. **53 a**, 340–348 (1998); received February 25, 1998

The principle of the time differential perturbed angular correlation and distribution technique which measures the nuclear quadrupole interaction is briefly described. Some examples are given to show the possibilities of this technique in microscopic studies of materials.

Reprint requests to Prof. Zhu Shengyun; Fax: +86-10-69357787, E-mail: [ciasyz@public.bta.net.cn](mailto:ciasyz@public.bta.net.cn)