

External Influences on the ^{14}N NQR of Ferroelectric NaNO_2

Sung Ho Choh and Jae Kap Jung

Department of Physics, Korea University, Seoul 136-701, Korea

Reprint requests to Prof. S. H. C.; E-mail: shchoh@kuccnx.korea.ac.kr

Z. Naturforsch. **55 a**, 124–128 (2000); received August 23, 1999

Presented at the XVth International Symposium on Nuclear Quadrupole Interactions, Leipzig, Germany, July 25 - 30, 1999.

External influences on the ^{14}N NQR of ferroelectric NaNO_2 , such as changes of the temperature, electric field, stress, gamma-ray irradiation, and impurity doping are reviewed. They normally cause either a frequency shift or a broadening of the ^{14}N NQR lines and are strongly related to the change of the spontaneous polarization.

Key words: ^{14}N NQR; Ferroelectric NaNO_2 ; Spontaneous Polarization; External Effects; Impurity.