

LOCAL SURROUNDING, NORMAL VIBRATIONS,  
AND STRUCTURE OF ANION  $\text{NO}_2^-$   
IN IONIC CRYSTALS

*L.A. Bulavin, V.P. Sakun, A.V. Yakunov*

Taras Shevchenko Kyiv National University  
(2, Acad. Glushkov Ave., Kyiv 03680, Ukraine;  
e-mail: bulavin@univ.kiev.ua, yakunov@univ.kiev.ua)

S u m m a r y

We have studied the behavior of the frequencies of intramolecular vibrations and the equilibrium configuration of the nuclear core of anion  $\text{NO}_2^-$  on changes of the temperature and the composition of a matrix and on the electron transition  ${}^1A_1 \rightarrow {}^1B_1$  ( $S_0 \rightarrow S_1$ ).