

^{14}N NQR Study of Diphenylamine

Janez Seliger^{a,b} and Veselko Žagar^a

^a “Jozef Stefan” Institute, Jamova 39, 1000 Ljubljana, Slovenia

^b University of Ljubljana, Faculty of Mathematics and Physics, Department of Physics,
Jadranska 19, 1000 Ljubljana, Slovenia

Reprint requests to J. S.; E-mail: janez.seliger@fmf.uni-lj.si

Z. Naturforsch. **63a**, 88 – 92 (2008); received July 17, 2007

The temperature dependence of the ^{14}N NQR frequencies has been measured in a polycrystalline sample of diphenylamine by nuclear quadrupole double resonance. Two non-equivalent diphenylamine molecules have been observed. The NQR parameters in diphenylamine were related to the NQR parameters obtained in other amines and to the molecular and crystal structure.

Key words: NQR; Nitrogen; Amines; Biphenyl.