## 1. NUCLEAR g-FACTORS AND STRUCTURE OF THE HIGH-SPIN ISOMERS IN <sup>190,192,194</sup>Pt

## A. I. Levon, I. B. Kovgar, Yu. V. Nosenko, V. A. Onischuk, A. A. Schevchuk

Integral perturbed angular distribution method in an external magnetic field has been used to measure the g-factors of isomers in the <sup>190,192,194</sup>Pt, populated in the ( $\alpha$ , 2n)-reaction. The results are as follows: <sup>190</sup>Pt, g(12<sup>+</sup>) = -0,17(12), g(10<sup>-</sup>) = -0,0016(36), g(7<sup>-</sup>) = +0,62(9); <sup>192</sup>Pt, g(12<sup>+</sup>) = -0,18(9), g(10<sup>-</sup>) = -0,0012(10), g(7<sup>-</sup>) = 0,48(12); <sup>194</sup>Pt, g(12<sup>+</sup>, new assignment) = 0,17(7), g(7<sup>-</sup>) = +0,26(8). The 12<sup>+</sup> states have the rotational-aligned (vi<sup>-2</sup><sub>13/2</sub>) structure. The missing rotation-aligned (vi<sup>-2</sup><sub>13/2</sub>)12<sup>+</sup> state is suggested to be isomeric in <sup>194</sup>Pt (instead of the 10<sup>+</sup> state) and to which the g = -0,17(6) value has to be attributed. From the g-factors of the 10<sup>-</sup> states in <sup>190</sup>Pt and <sup>192</sup>Pt, which have the configuration v9/2<sup>-</sup>[505] $\otimes$  v11/2<sup>+</sup>[615], the anomalous g<sub>1</sub>-factor for neutrons has been derived as  $\delta g_1 = -0,028(6)$ . Positive values of g-factors of the 7<sup>-</sup> isomers confirm the prediction of the non-axial rotor + 2 quasiparticles model about the change of the intrinsic structure from mainly (vi<sub>13/2</sub>, vj) to mainly ( $\pi h_{11/2}$ ,  $\pi j$ ) in transition from Hg to Pt nuclei.