

$$\frac{\bar{N} \cdot n_{\Gamma_{23}}}{n_{\Gamma_{23}}}$$

(200) (220)

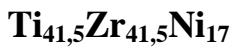
\bar{N}

$\frac{2}{250}$

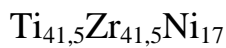
$$1,65 \cdot 10^4 / \bar{N} \quad (70\%)$$

1. , **34**, 1220 (2008).
 2. O.G. Danylchenko, Yu.S. Doronin, S.I. Kovalenko, M.Yu. Libin, V.N. Samovarov, and V.L. Vakula, Phys.Rev. A **76**, 043202 (2007). 3. V.P. Krainov, M.B. Smirnov, Phys.Rep **370**, 3 (2002).

539.9



[1].

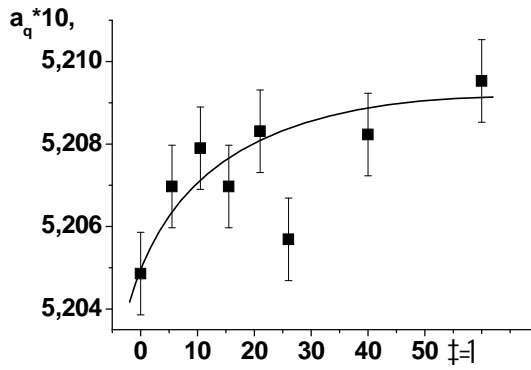


20...80

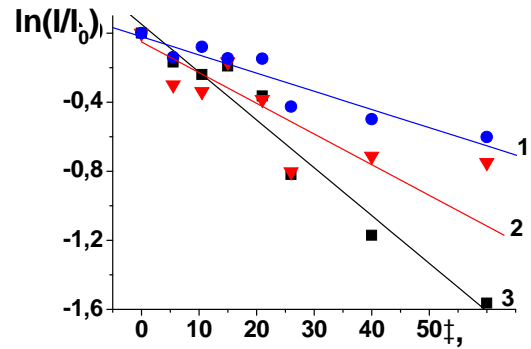
$$\lambda \approx 120 \cdot 10^{21} \text{ (}^{-2} \text{ }^{-1}\text{)}$$

(60)

0,52050 0,52095 (. . 1).

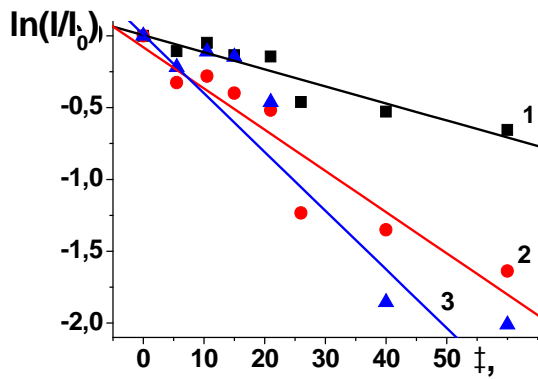


.1 -



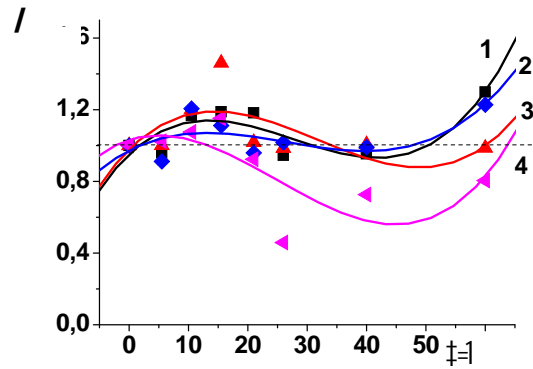
.2 -

(18,29) - 1, (28,44) - 2, (72,116) - 3



.3 -

(20,32) - 1, (52,84) - 2,
(136, 220) - 3



.4 -

(18,29) - 1, (52,84) - 2,
(20,32) - 3, (136,220) - 4

$$\frac{I}{I_0}$$

1

0,1 (. . 2-3),
(. . 4).

$$Q_{\parallel} (\dots),$$

$$Q_{\perp}.$$

[1 – 3]

C : **1.** *Stadnik Z. M.* Physical Properties of Quasicrystals.- Berlin: Springer.- 1999. - 438 p. **2.** ... - 2001. **3.** *Letoublon A., Yakhou F., Livet F.* Coherent X-ray diffraction and phason fluctuations in quasicrystals // *Europhys. Lett.*-2001.-V.54. - 6. - P.753-759.

621.56
