

???????????, ????, ??????, ???????, ?????????????? ???????? (??????, 7. IX 1953). ?? ??????? ?????????? ???? ?????? ?????????? 1975. ? ?????????? 1982. ?? ?????? ?????????? ?????? ?? ??? 1977, ? ? 1994. ?? ?????? ??????. ?? ??????? ? ?????????? ?????????? ?????? ?????? ?????? ?????? ? ?????????? ??????, ? ?? 2003. ?? ?????????????? ?????????????? ? ???????, ?? ?????????????????? ?????????, ??? ?????? ? ?????????? „Full Symmetry, Optical Activity and Potentials of Single- and Multi-wall Nanotubes”, *Phys. Rev. B*, 1999, 60; ??????, „Symmetry Based Fundamentals on Carbon Nanotubes”, 2, ?: S. V. Rotkin, S. Subramoney (?.), *Applied Physics of Nanotubes, Fundamentals of Theory, Optics and Transport Devices*, Berlin 2005). ?????? ?? ??? ?????????????? ?????????? ?? ??? ??????????, ??? ? ??????????a „? ?????????? ? ?????????a????????????? ??????” (?????? ???????, 1995, 1) ? *Line groups in Physics* (? I. Miloševi?, Berlin 2010). ? ??????? ?????????????? ?????? ?????????? ?? 2014. ??????? ?? ?????? ??? ???????, ??? ?? ?????????? ?????? ?????? ?????? ????. ?????????? ?? ?????? ??????? ? ?????????????? ?????????????? ?????????????? ?????????? ?? ???????, ? ?????? ?????????????? ?? ?????????? ?????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? ?????? ?? ?????????? „Nanotexnology” ? ??????. ?????? 2000. ??????? ?? ?????????????? ?? ?????????????? ?? ?????????? ?????? ?????? ?????? ? ?????????? ?????? ?? ? ?????? ?????? ?????? (M. Vujić, „Magnetic line groups”, *Phys. Rev. B*, 1982, 25, 11; B. Nikolić, I. Miloševi?, „Symmetry of nanotubes rolled up from arbitrary two-dimensional lattices along an arbitrary chiral vector”, *Phys. Rev. B*, 2007, 75; N. Lazić, M. Milivojević, „Spin line groups”, *Acta Cryst. A*, 2013, 69, 611). ??????? ?? ??????? „????? ?? ?????? ??????” (2006).

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