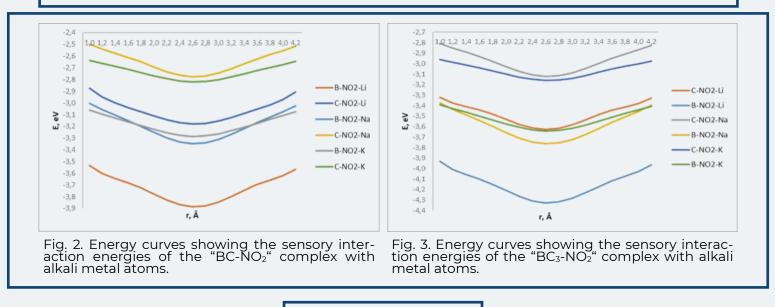


Fig. 1. A) The path by which the surface was scanned; B) BC3-NO2 complex with alkali metal atom Na

CHARACTERISTICS OF SENSORY INTERACTION WHEN SCANNING AN ARBITRARY SURFACE



CONCLUSIONS

Summing up, it can be concluded that all functionalized boron-carbon nanotubes studied can be used to detect the presence of alkali metal atoms. Such systems can act as sensing elements of sensor devices. At the same time, an increase in the number of impurity boron atoms in the obtained systems leads to a decrease in the energy of the sensory interaction of the complexes "BC-NO2", BC3-NO2" with alkali metal atoms Li, Na, K.