

Analysis of structure of the PTNS vesicles based on small-angle neutron scattering data obtained at the “Yellow Submarine” spectrometer

Author: Elena Zemlyanaya¹

Co-authors: Mikhail Kiselev¹; Varvara Chausova¹; Laszlo Almasy Almasy²

¹ *Joint Institute for Nuclear Research, Dubna, Russia*

² *Institute for Solid State Physics and Optics, Wigner Research Centre for Physics, Hungarian Academy of Sciences, Hungary*

Corresponding Author: elena@jinr.ru

Structure of unilamellar vesicles of the phospholipid transport nanosystem (PTNS) is analyzed based on small-angle neutron scattering data (SANS) obtained on the “Yellow Submarine” small angle spectrometer. SANS measurements were performed on polydispersed populations of PTNS vesicles in heavy water with different PTNS concentrations and with different purity of soybean phospholipids in the PTNS samples. Results of the analysis are compared with the characteristic of PTNS vesicular systems obtained earlier in the analysis of other small-angle scattering data from PTNS samples.