## OPTIMIZATION OF TEMPERATURE CONTROL IN LIQUID FLOW CRYOSTATS

I.P. Zharkov, O.M. Ivashchenko, S.V. Pogrebnjak, V.V. Safronov

Institute of Physics, Nat. Acad. of Sci. of Ukraine (46, Nauka Ave., Kyiv 03680, Ukraine; e-mail: zharkov@iop.kiev.ua)

S u m m a r y

In order to optimize the temperature control in cryosystems based on liquid flow cryostats, the thermal properties of the substance, of which the structural elements of the work chamber of cryostat are made, have been taken into account. The results of the experimental cryostat control in the temperature range 4.2–350 K are used to demonstrate that the developed device enhances the accuracy and the efficiency of cryosystems.