

Frustration of the freezing mechanism using a binary mixture

V. Carrasco-Fadanelli^a, A. Huerta^a and A. Trokhymchuk^b

^a*Universidad Veracruzana, Facultad de Física e Inteligencia Artificial,
Departamento de Física, Universidad Veracruzana, Circuito Gonzálo Aguirre
Beltrán s/n Zona Universitaria Xalapa, Veracruz, C.P. 91000, México,
E-mail: fadanellivc@gmail.com, adrian.huerta@gmail.com*

^b*Institute for Condensed Matter Physics, National Academy of Sciences of
Ukraine, Department of the Theory of Solutions, Lviv 79011 Ukraine,
E-mail: adt@icmp.lviv.ua*

Using a binary mixture of the hard disks we study the mechanism of frustration of the freezing phenomenon that takes place in a one-component hard disks system. We report the thermodynamics, structure and transport properties of the hard disks mixture at equimolar conditions and for different disk diameter ratios.