THERMAL PROPERTIES OF SIMULATED NON-IDEAL SYSTEMS

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S u m m a r y

The dependence of the thermal conductivity on the temperature is studied for a simulated non-ideal Yukawa system by means of the Green–Kubo formula in a wide range of parameters. The phase state of the system under study is changed from a strongly coupled 2D-solid to a low-coupled hot liquid. A method of calculation of the thermal conductivity for 2D-systems via the Green–Kubo formula is developed.