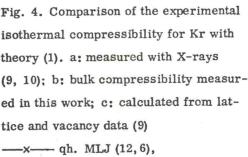
t (13); Urvas et al. (10);

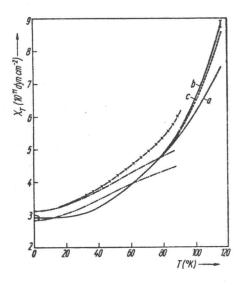
r crystals revealed that the s consisted of grains with dia-f approximately 5 mm (5). After als were grown, they were transom the growing tube to the dilatoamber.

the compressibility measurements re from 1 to 20 bar was applied to inge of sample length was inder lowered; i.e., no hysteresis



hermal expansion coefficient for 2,6)-Mie-Lennard-Jones potential; roximation; a: measured with in this work unh. MLJ (12,6), experiment





effect could be observed. In Fig. 1 and 2 the results for the volume thermal expansivity and the isothermal compressibility of Kr are plotted vs. temperature.

Manzhelii and coworkers have measured the bulk thermal expansivity of Kr in the temperature range from 14 to 69 °K and between 90 °K and the triple point (6 to 8). Their results agree well with our work within the experimental error (Fig. 1).

In the temperature region below 70 $^{\rm O}$ K the curves for the thermal expansivity and the isothermal compressibility agree with those of Losee et al. (9) and Urvas et al. (10) as shown in Fig. 1 and 2. At higher temperatures there is a contribution from thermally created vacancies to these quantities. Above 80 $^{\rm O}$ K the deviations of our measurements of the bulk expansivity from those measured by Losee et al. (9) with X-rays increase with temperature. Within experimental error the isothermal compressibility between 90 and 115 $^{\rm O}$ K agrees with the values calculated by Losee et al. from their lattice data and the vacancy concentration (9).

Feldman et al. have calculated the thermal expansivity and the isothermal compressibility for several Mie-Lennard-Jones potentials in different approximations (1). The results are presented in Fig. 3 and 4.

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