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ABSTRACT

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Melting of Rubidium at High Pressures

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The melting curve of rubidium at pressures to 60 kbar has been investigated by a differential thermal conductivity technique in a tetrahedral anvil device. The results indicate that the rubidium melting curve rises smoothly to about 260°C at 60 kbar with no maximum being observed. The present data agree well with the results of Newton, et al.,¹ and it appears quite certain that if a maximum in the melting curve of rubidium exists, it occurs at a pressure higher than 60 kbar.

¹ R. C. Newton, A. Jayaraman, and G. C. Kennedy, J. Geophys. Res. 67, 2559 (1962).