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Hugoniot measurement of RbCl single crystal TAKAHIRO KINOSHITA, TAKAYUKI INOUE, YUYANG ZHANG, TSUTOMU MASHIMO, Kumamoto University — The B1-B2 phase transition of Rubidium chloride (RbCl) was reported under hydrostatic compression by diamond anvil cell. However, the mechanism of phase transition and equation of states (EOS) have been unknown. Hugoniot-measurement experiments were performed on RbCl single crystals by means of the inclined-mirror method combined with propellant guns to study the B1-B2 phase transition and EOS. A kink was found on the measured Hugoniot curve. The EOS of the high-pressure phase will be discussed. MD simulation studies were also performed to discuss the mechanism of B1-B2 phase transition.

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