Anisotropic Pressure Effects on the Charge Order Transition of (TMTTF)$_2$X

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We measured the temperature dependent conductivity along the $a$-axis of quasi one-dimensional organic conductor (TMTTF)$_2$SbF$_6$ under several hydrostatic and the $b$-direction anisotropic pressures by using a constant high-pressure apparatus [1]. The anisotropic pressure was generated below 190K by so-called “frozen oil method” [2]. It was found that the charge order (CO) transition temperature $T_{CO}$ strongly depends on hydrostatic pressure, however, it is almost constant for uniaxial pressure along the $b$-direction. We will discuss the both pressure effects on the CO in (TMTTF)$_2$SbF$_6$.

![Phase diagram of (TMTTF)$_2$SbF$_6$](image)

Fig.1 Phase diagram of (TMTTF)$_2$SbF$_6$; squares: static pressure, circles: uniaxial pressure.