

# Temperature Dependence of ESR Width in TMTSF-SDW State

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The SDW state in the organic quasi-one-dimensional (TMTSF)<sub>2</sub>X system shows AFMR at low temperatures.[1] We show different temperature dependences of line widths above and below the spin-flop field. The line widths are comparable at the lowest temperature (around 0.4 K) in both cases. But the width above the spin-flop broadens linearly at higher temperatures, and it is five times larger than that below spin-flop field around 10 K. The possible origin is the different dynamic responses of SDW states which had been considered to have similar incommensurate nesting wave vectors. [2][3]

[1] M. Dumm et al., Phys. Rev. 62 (2000) 6512. And references therein.

[2] T. Takahashi et al., J. Phys. Soc. Jpn. 55 (1986) 1364.

[3] J.M. Delrieu et al., Physica 143B (1986) 412.