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Fluctuating charge density wave (CDW) in quasi-one-dimensional conductor $Rb_{0.3}MoO_3$[1] GUOQING WU, JUN DONG, YAFANG XU, XIAO-SHAN YE, XIANGHUA ZENG, Yangzhou University, BING WU, Fayetteville State University, W. GILBERT CLARK, University of California, Los Angeles (UCLA) — Fluctuating charge density wave (CDW) in quasi-one-dimensional conductor $Rb_{0.3}MoO_3$ Guoqing Wu, Jun Dong, Yafang Xu, Xiao-shan Ye, Xianghua Zeng*, Yangzhou University Bing Wu, Fayetteville State University W. G. Clark, University of California, Los Angeles Various forms of charge and spin ordering exhibit in low dimensional conductors. They accompany with macroscopic coherence like superconductivity in some cases and sometimes compete or coexist with each other, while their significance is not fully understood. The quasi-one-dimensional blue bronze $Rb_{0.3}MoO_3$ is known to be a charge density wave (CDW) conductor and has been widely studied. Here we report spin-phase relaxation rate ($1/T_2$) measurements by ^{87}Rb-NMR with a variation of field (B) alignments over the temperature rage 80 250 K (($B = 9$ T). There is no clear evidence to support the model presented earlier in which the slow fluctuation of phasons are observed in the thermal fluctuations of CDW. *Supported by China NSF grant : 61474096

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