

Abstract Submitted
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Excess noises and its correlation with vortex motion¹ FULIN ZUO,
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falo — We report voltage noise studies in the superconducting transition of thin Tin
(Sn) films. Voltage noises are measured as a function of temperature and applied
current. Simultaneous measurement of the noise power and I-V characteristics sug-
gest strong correlation of the excess noises with vortex motion. The noise power
displays the same temperature dependence as that of the third harmonics voltage
signal. The results will be discussed in terms of vortex- antivortex pair and pair-pair
interactions.

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