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**Dihua Jiang\***, School of Mathematics, 127 Vincent Hall, Minneapolis, MN 55455. *Non-linear Fourier transforms and standard  $L$ -function for symplectic groups: local theory.* Preliminary report.

I will discuss the local theory of the Braverman-Kazhdan proposal, which is to establish the basic properties of the  $L$ -functions (Langlands conjecture) via non-linear Fourier transform and Poisson summation formula, for the standard  $L$ -function of  $Sp(2n)$ . This is a report on a joint work in progress with Zhilin Luo and Lei Zhang. (Received February 04, 2020)