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Seung Hyun Kim* (skim227@u.rochester.edu). *An effective Log-transform method with the fixed free Boundary for the approximation of the free boundary and solution in one-phase Stefan problem.* Preliminary report.

In this talk, we present an effective log-transform method which fixes the free boundary in one-phase Stefan problem into a straight line and, thus, changes the curvy domain into a rectangular domain. Then, we compare the numerical result obtained by this method with the exact solution. (Received December 21, 2015)