

Abstract Submitted
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Imaging heat transfer processes in a fluid with temperature sensitive paint JUN HUANG, University of Central Florida, TIANSHU LIU, Western Michigan University, WEILI LUO, University of Central Florida — The temperature profile inside a fluid was imaged by temperature sensitive paint in a quasi one-dimensional cell, where temperature gradients were established by heating on one side of the sample and cooling on the other. Similar experiment was performed on colloids consisting nanoparticles suspended in solvent. The change of the profile for different heat-transfer processes as functions of time will be discussed.

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