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Bao Truong* (btruong@nmu.edu), Department of Mathematics, Northern Michigan University, Marquette. *Fixed points and variational principles with applications to behavioral sciences.*

In this talk, we present a unified dynamical approach to variational principles and fixed point theorems involving set-valued mappings acting from quasimetric spaces into topological spaces with variable ordering structures. Besides the mathematical novelty, our motivation comes from applications to adaptive dynamical models of behavioral sciences. (Received September 15, 2014)