1163-34-209   **Johnny Henderson*** (`johnny_henderson@baylor.edu`), Department of Mathematics, Baylor University, Waco, TX 76798-7328, and **Kadda Maazouz** (`mzkadda@gmail.com`), Department of Mathematics, University of Tiaret, 14000 Tiaret, Algeria. *Existence and uniqueness for a Caputo-Katugampola fractional thermistor problem.*

A *thermistor* is a type of electrical device whose resistance is dependent on temperature. In this talk, existence and uniqueness results are obtained, using fixed point theory, for solutions of a Caputo-Katugampola fractional thermistor problem. (Received August 27, 2020)