

NEW COMPARISON METHOD FOR NONAUTONOMOUS CAPUTO–TYPE TIME–DELAY SYSTEMS

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Abstract. This paper exploits non-autonomous Caputo-type systems associated with unbounded delayed arguments. We formulate a new theorem and provide proof that gives limiting behaviour of nontrivial solutions to zero vector. Two examples are provided to illustrate the proposed theorem.

Mathematics subject classification (2020): 26A33, 34A08, 34D05, 34D20, 34D23.

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