

# Blow up and asymptotic behavior of solutions for a $p(x)$ -Laplacian equations with delay term and variable exponents

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## Abstract

In this paper, we consider a nonlinear  $p(x)$ -Laplacian equation with delay of time and variable exponents. Firstly, we prove the blow up of solutions. Then, by applying an integral inequality due to Komornik, we obtain the decay result. These results improve and extend earlier results in the literature.

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