

# Controllability of a one dimensional degenerate parabolic equation with first order terms

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## Abstract

In this talk we present a null controllability result for a degenerate semilinear parabolic equation with first order terms. The main result is obtained after the proof of a new Carleman inequality for a degenerate parabolic linear equation. The proof is based on the technique introduced by Imanuvilov and Yamamoto for a parabolic equations in Sobolev equations of negative order. This work was done in collaboration with Carmelo Flores.