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Abstract. We give null controllability results for some degenerate parabolic equations in non divergence form on a bounded interval. In particular, the coefficient of the second order term degenerates at the extreme points of the domain. For this reason, we obtain an observability inequality for the adjoint problem. Then we prove Carleman estimates for such a problem. Finally, in a standard way, we deduce null controllability also for semi-linear equations.

Biographical Sketch. Dario Rocchetti was born in Rome and received his Laurea degree in Mathematics from the University of Rome 'La Sapienza'. He is a Ph.D. student in Mathematics at the University of Rome 'Tor Vergata'.

¹The [omit] should be omitted when sending email. It was included here to avoid automatic "harvesting" by spam-list makers.