

1106-49-1329      **Miguel Sama\*** ([msama@ind.uned.es](mailto:msama@ind.uned.es)), Calle Juan del Rosal, 12 ETSI Industriales, UNED, 28040 Madrid, Madrid, Spain, and **Akhtar Khan**. *Regularization error estimates for integral constraint regularization of state-constrained elliptic control problems.*

In this talk we deal with state-constrained elliptic control problem, in particular we deal with integral regularization methods (Systems & Control Letters 61 (2012) 707-713). We give several estimates for the regularization error and we present some new results on the regularity and convergence of the regularized controls and associated Lagrange multipliers. Finally we show how we can apply these results in order to get numerical error estimates for a discretization of the original problem. (Received September 12, 2014)