

A POSTERIORI ERROR ESTIMATION AND ADAPTIVITY IN THE MAXIMUM NORM

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In this talk I will discuss recent progress in constructing adaptive algorithms for controlling errors in the maximum norm. The main focus of the talk will be the construction of robust a posteriori error estimators for singularly perturbed elliptic reaction-diffusion problems. Time permitting, I may also discuss the sharpness of logarithmic factors that typically arise in maximum norm a posteriori estimates.

Joint work with Natalia Kopteva (University of Limerick).