

# Controllability of parabolic PDE's with large parameters

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We consider a family of linear parabolic equations depending on a parameter which goes to infinity and we show that it is possible to control the family in a uniform way. Moreover, we also extend this result locally for nonlinear systems. Our strategy is based on spectral inequalities and a precise knowledge of the cost of controllability.

## References

- [1] J.L.LIONS & E. ZUAZUA, *The cost of controlling unstable systems: time irreversible systems*, Revista Matemática de la Universidad Complutense de Madrid, 1997.
- [2] F. W. CHAVES-SILVA & S. GUERRERO *A uniform controllability result for the Keller-Segel system*, Asymptotic Analysis, 2015.