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Ergodicity for SPDEs driven by divergence-free transport noise

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We study the ergodic behaviour of the McKean–Vlasov equations driven by common divergence-free transport noise. In particular, we show that in dimension $d \geq 2$, if the noise is mixing and sufficiently strong it can enforce the uniqueness of invariant measures, even if the deterministic part of equation has multiple steady states. This is joint work with Benjamin Gess and Adrian Martini.

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