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Renormalisation in the flow approach for singular SPDEs

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We study the renormalisation of singular SPDEs in the flow approach recently developed by Duch. After giving a smooth introduction to the method, we will give a general ansatz based on decorated trees for the solution of the flow equation. The ansatz is renormalised in an inductive way, in the sense of the trees, via local extractions introduced for regularity structures. We derive the renormalised equation from this ansatz and show that the renormalisation scheme is identical to that appearing in the context of regularity structures, thus matching the BPHZ renormalisation. This is based on joint work with Yvain Bruned.

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