

**BURGERS TURBULENCE FROM THE FUNCTIONAL RENORMALISATION GROUP:
UNIVERSAL PROPERTIES OF MOMENTUM DEPENDENT CORRELATION FUNCTIONS**Mathey Steven¹, Gasenzer Thomas¹ & Pawłowski Jan M.¹¹*Institut für Theoretische Physik, Ruprecht-Karls-Universität Heidelberg, Philosophenweg 16, 69120
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Abstract The stochastic Burgers' equation is studied as a toy model for Navier-Stokes turbulence. Non perturbative scaling of a randomly stirred fluid in a stationary state is investigated with the functional renormalisation group. We make a truncation with a very general, momentum dependent, two points correlation function and write a fixed point condition which is to be solved recursively. We extract scaling exponents that agree with a similar work on the KPZ equation.