

Tensor networks are well developed tools for describing ground states of local systems. As a motivation I will give a very short review on tensor networks with a specific focus on Multiscale Entanglement Renormalization Ansatz (MERA). I will continue with reviewing a continuous constructions of MERA in free field theories which gives a continuous circuit reconstructing the ground state of such a theory from a given reference state. I will introduce a perturbative method in order to find the corresponding circuit in renormalizable interacting field theories. I will present the results for  $\phi^4$  theory as a concrete example of this new method and discuss about some physical implications.