

A PRIMER IN TENSOR FIELD THEORY

by

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In this short course I will introduce the basics of tensor field theory. I first will focus on the zero dimensional case. I will detail the $1/N$ expansion in several examples of tensor models and compare it to the $1/N$ expansion of mixed vector / tensor models (like the SYK model). In the second part of the course I will discuss the renormalization in tensor field theories and the various fixed points one finds in the large N limit.

