Numerical Bootstrap

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This article summarizes the basics of bootstrap techniques in conformal field theories.

I. EPFL LECTURE NOTES:

A Quantum Field Theory is usually written in terms of a Lagrangian. Such Lagrangian has a free part and an interacting part. The interacting part is added to the free part after multiplying with a number, often called the coupling. It is long known that the value of these

coupling gets changed when the number of degrees of freedom to be considered are changed. The description of the couplings at very high energy is called UV (ultra violate) and that at very low energy is called IR (Infrared). The couplings of the theory get changed with respect to the energy consideration, and this change is encoded in the so called beta function.