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The Hybrid Bootstrap

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In recent years, great focus has been given to analytical functionals to bootstrap extremal solutions to crossing. Current bootstrap methods mainly focus on determining the CFT data associated to the lowest lying operators. We will attempt to open a path towards approximating the full spectrum of extremal solutions in 1d by employing the powerful extremal functionals. Knowing the asymptotic behavior of both solutions and functionals, we rewrite crossing as an integral equation in the large Δ limit. This leads to the construction of a hybrid bootstrap : analytical solution of crossing in the UV, and standard numerical methods in the IR. Advantages and limits of this novel method will be discussed along with applications.

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