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Type: **Discussion session**

Unitarity versus positivity

jeudi 27 mai 2021 15:30 (1 heure)

The numerical bootstrap finds crossing symmetric four-point functions which have real OPE coefficients in their conformal block expansions. Some of these are four-point functions of unitary CFTs while others are part of non-unitary CFTs that simply require more correlators before we can see the non-unitarity.

I will discuss this phenomenon in the context of 2D where the bounds are saturated by non-unitary CFTs which are exactly solvable; the generalized minimal models. The methods will be general enough to prove or disprove positivity when there is an extended chiral algebra as well.

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Classification de thématique: 4. Non-unitary bootstrap methods