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Multipoint correlators on the supersymmetric Wilson line defect CFT

One dimensional CFTs are an exceptional laboratory in which we can test novel techniques in order to solve higher dimensional CFTs. They are also relevant from an holographic point of view, as in the case of conformal line defects in 4d N=4 Super Yang-Mills. In this talk, I will present a recursive prescription to compute, up to one loop, 4d N=4 SYM n-point correlation functions realised inserting protected operators on a 1/2-BPS Wilson line. Interestingly, these correlators are annihilated by a special class of differential operators, that can be considered as a multipoint extension of the superconformal Ward identities satisfied by the four-point functions.

Type of contribution

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