

Valentina Forini: Conformal field theories from line defects, holography and the analytic bootstrap

Friday, July 18, 2025 10:00 AM (1 hour)

Wilson lines are a prototypical example of defect in quantum field theory. After reviewing the superconformal case - in which the one-dimensional defect CFT that they define is particularly interesting - I will discuss some analytic tools that may prove useful in this context, but are developed for generic 1d CFTs. Among them, a representation of the four-point correlator as a Mellin amplitude and via a dispersion relation.