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## Double scaling limits for field theory defects

*Thursday 7 July 2022 14:00 (1 hour)*

Defect operators in field theory are very interesting for a number of reasons. Drawing inspiration from techniques which have been very recently applied to uncover interesting properties of sectors of operators with large charge under a global symmetry, we will study simple defects in the Wilson-Fisher fixed point near  $d=4,6$  dimensions. Combining with localization, we will also introduce a novel double-scaling limit for certain Wilson loops in  $N=2$  supersymmetric theories in 4d which allows to make exact statements at finite  $N$ .

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