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Double scaling limits for field theory defects

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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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