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Defect CFTs, Rigid Holography and C-Theorems

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We study scalar CFTs in $d=4,6$ with planar defects and study the RG flows induced by the defects. Taking a double scaling limit, bulk loops are suppressed, simplifying the analysis. We study the beta function of the defect couplings and give conditions for the stability of the theory. We construct a Hamiltonian $\mathcal{H}$ and prove using rigid holography techniques and the Hamilton-Jacobi that the beta function is a gradient of $\mathcal{H}$, fulfilling a C-theorem.

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