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Gauge invariant interactions and Large Charge

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Using large charge methods we evaluate the contributions from gauge invariant interactions to the scalar field anomalous dimensions in various models between 2 and 4 dimensions. Examples contain scalar QED, Nambu-Jona-Lasinio and Gross-Neveu-Yukawa models. In some of these, superconformal field theories emerge at the fixed points, exhibiting a rich structure and relation between actions in various dimensions. (Work in progress with Oleg Antipin and Jahmall Bersini)

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