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Fixed point and anomalous dimensions in a Composite Higgs theory

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We have applied the gradient flow to an $SU(4)$ gauge theory with two sets of fermions in separate gauge representations. We have a clean result for the beta function of the theory up to and beyond an infrared fixed point. Using the fermion GF we have obtained anomalous dimensions for mesonic operators and for the chimera operators that are needed for top quark mixing. We were able to reach strong couplings thanks to our use of Pauli-Villars fields to regulate short-distance fluctuations.

Presenter: SVETITSKY, Benjamin (Tel Aviv University)