

Title: Discussion 4

Date: Jun 07, 2018 11:15 AM

URL: <http://pirsa.org/18060019>

Abstract:

Francesco

Daniel et al.

1) Fermions

Abel and Francesco

Det al

F

Abel + F

Mann + ---

Salvio + ---

CAUTION
DO NOT TOUCH THE BOARD SURFACE
OR THE BOARDER FRAME
OR THE BOARDER GLASS
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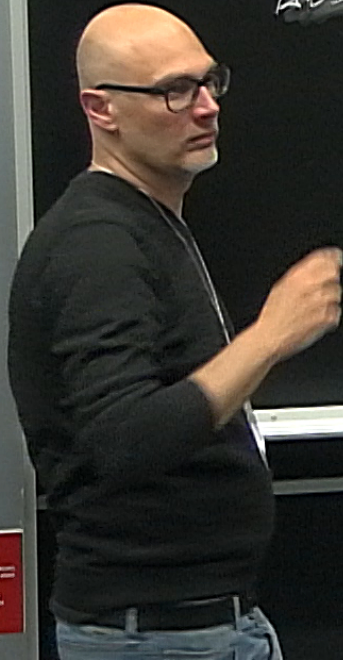
1) Det al

F [Sage QCD idoe]
in CERN YELLOW REPORT

Abel + F

Mann + ---

Salvio + ---



- Det al
- 1) Perturbative theory
 - 2) No Higgs safety
 - 3) Higher up to believe
fixed point

Steve + F

F [Safe QCD ideas]
in CERN YELLOW REPORT

Maur + ...

Salvio + ...

CAUTION
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- Detail
- 1) Perturbative theory
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F [Safe QCD ideas]
in CERN YELLOW REPORT

Mann + ... cheap
 $\frac{1}{N_f} \rightarrow \beta_H$
 Salvio + ...

Steve + F

- 1) Radiation Symmetry Break
- 2) Coleman Weh
- 3) Safe
- ④ PS

Francesco

Abel and Francesco

Daniel et al.

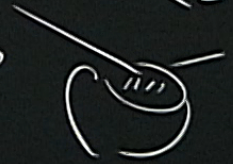
1) Fermions

We have shown
that $SM_{\text{Higgs}} + VLF$
does "not" save the SM

$$\mathcal{L}_{\text{DM}} = \text{Tr} [\partial_\mu U \partial^\mu U^\dagger] + \text{tr} [m (U^\dagger + U)]$$

$$\Gamma_{WZW} = \frac{N_c^2}{240\pi} \int_{\mathcal{M}_5} \text{tr} [\alpha \wedge \alpha \wedge \alpha \wedge \alpha \wedge \alpha]$$

$\alpha = U^{-1} \partial_\mu U dx^\mu$

$\pi\pi \rightarrow \pi\pi\pi \rightarrow$ 

$$\mathcal{L}_{\text{YM}} = \text{Tr} [\partial_\mu U \partial^\mu U^\dagger] + \text{tr} [\bar{\psi} (\not{\partial} + \not{A}) \psi]$$

$$\Gamma_{\text{WZW}} = \frac{N_c^2}{240\pi} \int_{\mathbb{S}^5} \text{tr} [\alpha \wedge \alpha \wedge \alpha \wedge \alpha \wedge \alpha]$$

$\psi \psi \phi$

$$\alpha = U^{-1} \partial_\mu U dx^\mu$$

$\int \phi^2 \text{tr} [H^\dagger + H]$

