

- **New particles and interactions at the LHC**

new gauge bosons:

Z' and its Higgs particle

(with Felix Yu)

vectorlike fermions:

new electroweak multiplets

(with Claudius Krause)

**Heavy neutrinos
near the weak scale**

- **Anomaly-free chiral sets of fermions**

with D. Costa and P. Fox, Phys. Rev. Lett. - Oct 2019

“General solution to the U(1) anomaly equations”

we are now trying to extend our results to larger gauge groups.