Alejandro Celis

────── Publications in Refereed Journals

1. *Higgs-Electroweak Chiral Lagrangian: One-Loop Renormalization Group Equations*,
G. Buchalla, O. Cata, A. Celis, M. Knecht, C. Krause,
[arXiv:2004.11348].

2. *Master formula for one-loop renormalization of bosonic SMEFT operators*,
G. Buchalla, A. Celis, C Krause, J.-N. Toelstede,
[arXiv:1904.07840].

3. *Higgs boson pair production in non-linear Effective Field Theory with full m_t-dependence at NLO QCD*,
G. Buchalla, M. Capozi, A. Celis, G. Heinrich and L. Scyboz,
JHEP 1809 (2018) 057 [arXiv:1806.05162].

4. *Anomalies in Bottom from new physics in Top*,
J. E. Camargo-Molina, A. Celis, D. A. Faroughy,
Phys.Lett. B784 (2018) 284-293 [arXiv:1805.04917].

5. *WCxf: an exchange format for Wilson coefficients beyond the Standard Model*,
J. Aebischer et al.,
Comput.Phys.Commun. 232 (2018) 71-83. [arXiv:1712.05298].

6. *Complete One-Loop Renormalization of the Higgs-Electroweak Chiral Lagrangian*,
G. Buchalla, O. Cata, A. Celis, M. Knecht, C. Krause,
Nucl.Phys. B928 (2018) 93-106. [arXiv:1710.06412].

7. *Gauge-invariant implications of the LHCb measurements on Lepton-Flavour Non-Universality*,
A. Celis, J. Fuentes-Martin, A. Vicente, J. Virto.,
Phys. Rev. D96 (2017) no.3, 035026. [arXiv: 1704.05672].

8. *DsixTools: The Standard Model Effective Field Theory Toolkit*,
A. Celis, J. Fuentes-Martin, A. Vicente, J. Virto.,
Eur. Phys. J. C77 (2017) no.6, 405. [arXiv: 1704.04504].

9. *Yukawa enhancement of Z-mediated New Physics in $\Delta S = 2$ and $\Delta B = 2$ Processes*,
C. Bobeth, A. J. Buras, A. Celis and M. Jung,
JHEP 1707 (2017) 124. [arXiv: 1703.04753].

10. *Scalar contributions to $b \to c(u)\tau\nu$ transitions*,
A. Celis, M. Jung, Xin-Qiang Li, A. Pich,
Phys. Lett. B771 (2017) 168-179. [arXiv: 1612.07757].

11. *Patterns of Flavour Violation in Models with Vector-Like Quarks*,
C. Bobeth, A. J. Buras, A. Celis and M. Jung,
JHEP 1704 (2017) 079. [arXiv: 1609.04783].

12. *Dirac Dark Matter and $b \to s\ell^+\ell^-$ with U(1) gauge symmetry*,

A. Celis, W.-Z. Feng, M. Vollmann,
Phys. Rev. D95 (2017) no.3, 035018. [arXiv: 1608.03894].

13. *Standard Model Extended by a Heavy Singlet: Linear vs. Nonlinear EFT,*
G. Buchalla, O. Cata, A. Celis, C. Krause,
Nucl. Phys. B917 (2017) 209-233. [arXiv: 1608.03564].

14. *Phenomenology of an $SU(2) \times SU(2) \times U(1)$ model with lepton-flavour non-universality,*
S. M. Boucenna, A. Celis, J. Fuentes-Martin, A. Vicente, J. Virto,
JHEP 1612 (2016) 059. [arXiv: 1608.01349].

15. *Non-abelian gauge extensions for B-decay anomalies,*
S. M. Boucenna, A. Celis, J. Fuentes-Martin, A. Vicente, J. Virto,
Phys. Lett. B760 (2016) 214-219. [arXiv: 1604.03088].

16. *Comment on "Analysis of General Power Counting Rules in Effective Field Theory",*
G. Buchalla, O. Cata, A. Celis, C. Krause,
arXiv: 1603.03062.

17. *Stringy explanation of $b \to s\ell^+\ell^-$ anomalies,*
A. Celis, W.-Z. Feng, D. Lust,
JHEP 1602 (2016) 007. [arXiv: 1512.02218].

18. *Fitting Higgs Data with Nonlinear Effective Theory,*
G. Buchalla, O. Cata, A. Celis, C. Krause,
Eur. Phys. J. C 76 (2016) no.5, 233. [arXiv: 1511.00988].

19. *Family nonuniversal Z' models with protected flavor-changing interactions,*
A. Celis, J. Fuentes-Martin, M. Jung, H. Serodio,
Phys. Rev. D92 (2015) 1, 015007. [arXiv: 1505.03079].

20. *Note on Anomalous Higgs-Boson Couplings in Effective Field Theory,*
G. Buchalla, O. Cata, A. Celis, C. Krause,
Phys. Lett. B750 (2015) 298-301. [arXiv: 1504.01707].

21. *Flavour-changing top decays in the aligned two-Higgs-doublet model,*
G. Abbas, A. Celis, X-Q. Li, J. Lu, A. Pich,
JHEP 1506 (2015) 005. [arXiv: 1503.06423].

22. *A class of invisible axion models with FCNCs at tree level,*
A. Celis, J. Fuentes-Martin , H. Serodio,
JHEP 1412 (2014) 167. [arXiv: 1410.6218].

23. *An invisible axion model with controlled FCNCs at tree level,*
A. Celis, J. Fuentes-Martin , H. Serodio,
Phys. Lett. B741 (2015) 117-123. [arXiv: 1410.6217].

24. *Effective Aligned 2HDM with a DFSZ-like invisible axion,*
A. Celis, J. Fuentes-Martin, H. Serodio,
Phys. Lett. B737 (2014) 185-190. [arXiv: 1407.0971].

25. *Model discriminating power of lepton flavor violating τ decays,*
A. Celis, V. Cirigliano, E. Passemar,
Phys. Rev. D89 (2014) 095014. [arXiv: 1403.5781].

26. *Towards a general analysis of LHC data within two-Higgs-doublet models*,
    A. Celis, V. Ilisie, A. Pich,
    JHEP 1312 (2013) 095. [arXiv: 1310.7941].

27. *Lepton flavor violation in the Higgs sector and the role of hadronic τ-lepton decays*,
    A. Celis, V. Cirigliano, E. Passemar,
    Phys. Rev. D89 (2014) 013008. [arXiv: 1309.3564].

28. *LHC constraints on two-Higgs doublet models*,
    A. Celis, V. Ilisie, A. Pich,
    JHEP 1307 (2013) 053. [arXiv: 1302.4022].

29. *Sensitivity to charged scalars in $B \to D^{(*)}\tau\nu$ and $B \to \tau\nu$ decays*,
    A. Celis, M. Jung, X.-Q Li, A. Pich,
    JHEP 1301 (2013) 054. [arXiv: 1210.8443].

30. *$K \to \pi\pi$ Decays in SU(2) Chiral Perturbation Theory*,
    J. Bijnens, A. Celis,
    Phys. Lett. B680 (2009) 466-470. [arXiv: 0906.0302].