Christoph Bobeth: “Upper bounds on FCNC $K$ and $B$ Decays from Minimal Flavor Violation” 5 min

Dennis Silverman: “The Iso-singlet Down Quark Model and CP Violation” 5 min

discussion: inputs to Wilson coefficient fits (c.f. Talk by Gerald Eigen)

banquet
\[ C_i(\mu_W) \] \textbf{Wilson coefficient fits}

- **modes:** \( b \to s\gamma, b \to sg, b \to s\ell\ell, \ell = e, \mu, \tau, B \to \ell\ell \ldots \) hadronic 2-bodies (?)...

- **observables:** \( Br, a_{CP}, \) helicity sensitive observables; dileptonic: \( q^2\)-spectra, \( A_{FB}, \hat{s}_0, \) ...

- **operators**
  - A : Standard Model basis \( O_{7\gamma}, O_{8g}, O_{9\ell}, O_{10\ell} : 4 \text{ real, 8 complex parameters} \)
  - B : extend basis: e.g. add scalar operators \( O_S, O_P \) 6 real, 12 complex parameters
  - C : allow for right-handed currents = \# parameters \( \times 2 \)
  - D : .....
$C_i(\mu_W)$ Wilson coefficient fits

- specify assumptions (such as no New Physics in QCD/EWK penguins, “model-independent” is only so in certain context e.g. hep-ph/0310219)

- exclusive $\ell\ell$ decays: $R_K, A_{FB}$, form factors, cuts

  “In the absence of a good $A_{FB}$ measurement in inclusive decays, what is the best way to profit from $B \rightarrow K^*\ell\ell$?”

- inclusive decays, $m_X$-cuts

With more data frequently coming in on rare decays, these type of ‘non-unitarity triangle-fits‘ will provide precision tests of the Flavor sector of the Standard Model and beyond.