Flavor Les Houches Accord second meeting - Les Houches - June 24, 2009 3:00pm
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Present

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Summary

Discussion on the FLHA proposal example file (see the two last pages in the slides):

1- FMODSEL Block can also include SUSY. Case "0" for example can be dedicated to SUSY. That means that we will not use MODSEL block.

2- We keep FLIFE block as it is in sec (as opposed to GeV) which is simpler and more convenient for flavor calculations.

3- For the decay constants, we should define a new block for the ratios (e.g. f_K/f_pi).

4- Scales at which the Wilson coefficients should be given has been discussed. We agreed that we provide only the structure and remain flexible as regards to the scales. However we recommend the flavor calculators to provide them at the weak scale (either m_t or m_W -that has to be decided).

5- It might be better to split the Wilson coefficients into two blocks: Delta_F=1 and Delta_F=2.

6- We need to discuss with other B physics experts before deciding on the sets of operators and Wilson coefficients.

7- Two options are possible for the flavor observables (FOBS block): the two column format where the first column specifies the underlying process (e.g. b to s gamma) and the second column defines the observable (e.g. BR, isospin,...). The second option would be to use the decay table structure of SLHA. We decided to use the first option which is simpler and easier to understand given the small number of observables we deal with.

8- The name of "FDOBS" block will be changed to "FOBSERR" for sake of clarity.

9- FOBSSM block should be removed. Instead the SM predictions can be given also in the FOBS block. For example:

```
     1     0     XXXXXXXXXXXXXX   # BR(b->s gamma)_SM
     1     1     2.97350499e-04   # BR(b->s gamma)
```

10- We do not need the block FPRECOBS since it is not related to flavor, and we cannot provide a complete list of all possible precision observables.

The next steps:

11- The current proposal will be put on the wiki page (Nazila & Sabine) so that interested people can discuss different blocks and suggest modifications/improvements.

12- Pietro will discuss with Pierini at CERN (on Friday June 26).

13- Nazila will discuss with CKMFitter members next week.

14- We should set up a mailing list.