

FlavBit status and future plans

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Outline



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- We needed a framework that will calculate the actual χ^2 , taking into account all errors correlations etc.
 - Theory predictions comes from Nazila SuperIso wrapper.
 - Used Yaml to pass the arguments.
 - Boost for mathematic operations.
- ```
– name: BR_Bs2mumu
 islimit: false
 value: 2.1e-9
 stat_error_minus: 0.1e-9
 sys_error_minus: 0.1e-9
 stat_error_plus: 0.3e-9
 sys_error_plus: 0.3e-9
 source: PDG
 correlation:
– name: B02mumu
 value: 0.1
```

- This cards style I adopted from HFAG.
- Additionally code check if the correlation matrix makes sense  $\rightarrow$  symmetric.
- Claculates the total  $\chi^2$  and returns.
- In principle we will have assymetric errors. The treatment of the standard:

$$\chi^2 = \Delta cov \Delta \quad (1)$$

# What is missing?