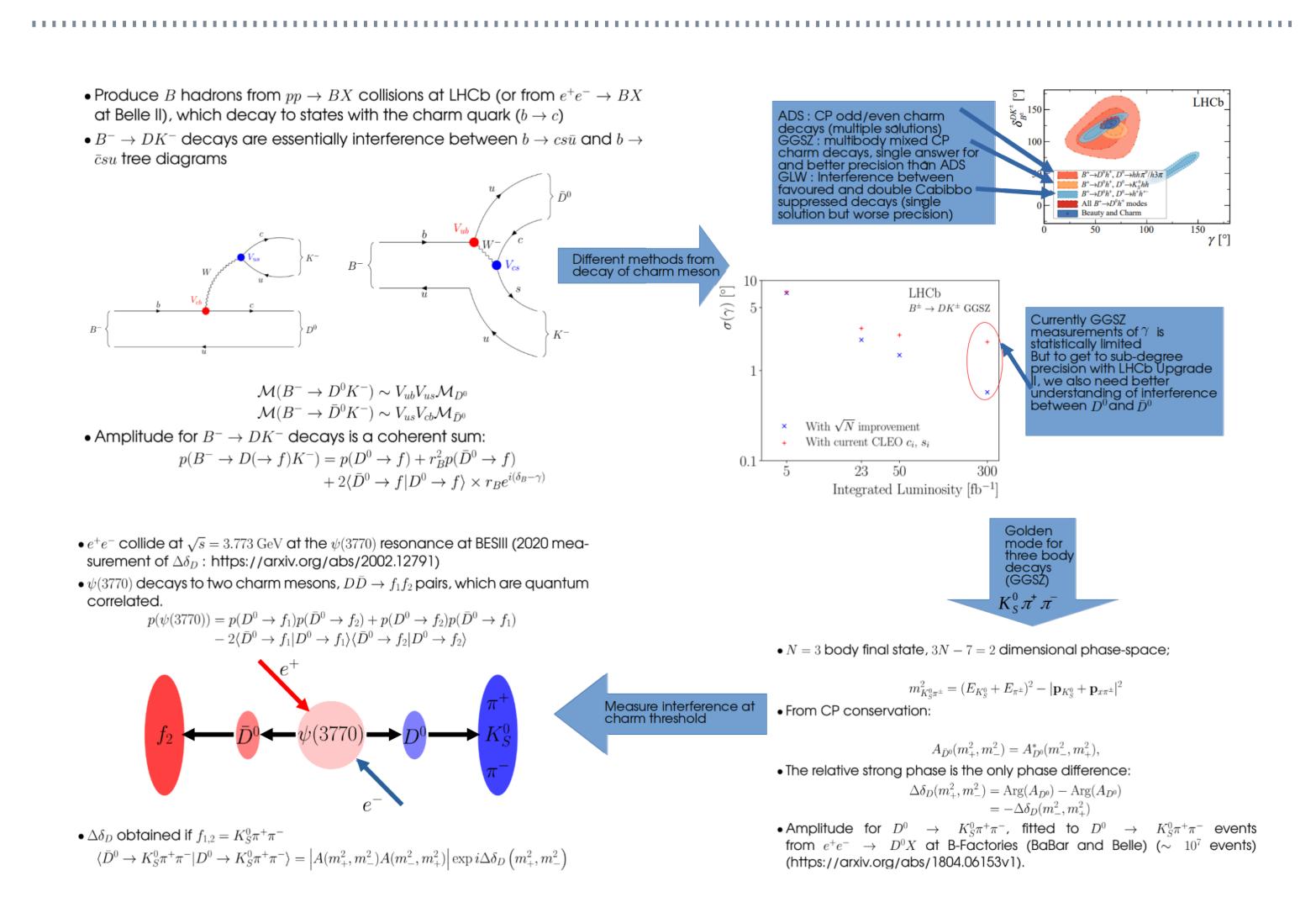


A novel method to measure the relative strong phase between D^0 and \bar{D}^0 in $D\to K_S^0\pi^+\pi^-$ and its application to measurements of the CKM angle γ in $B^\pm \to D^0(\bar D^0)K^\pm$ decays.

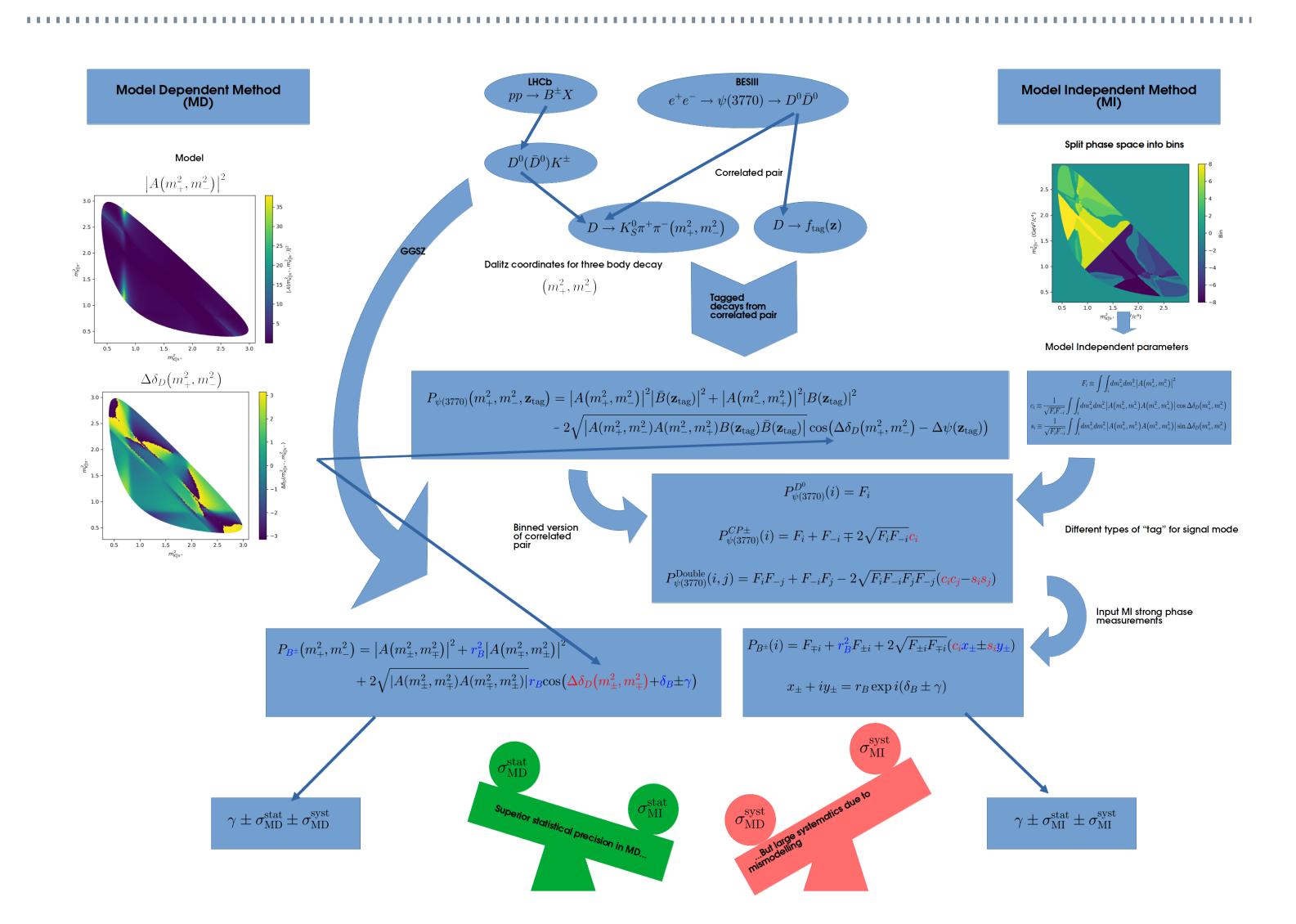


Jake Lane [1], Evelina Gersabeck [2], Jonas Rademacker [3]
[1] Monash University (Aus), [2] University of Manchester (UK), [3] University of Bristol (UK)

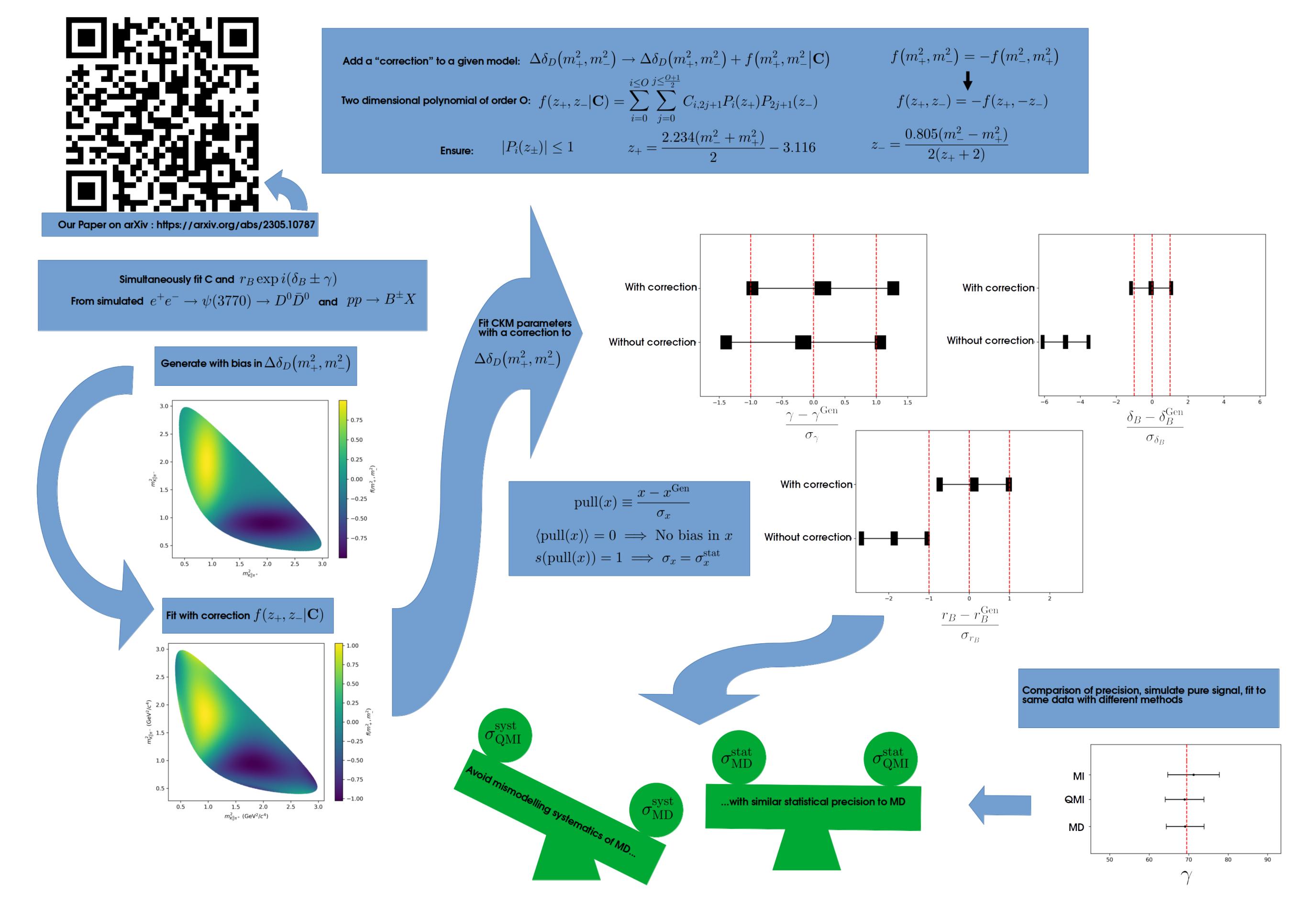
1. Measuring γ from $B \to DK$



2. Existing methods (MD and MI)



3. Our method (Quasi Model Independent - QMI)



Conclusions

- Shown our novel method measures gamma with similar statistical precision to the optimal unbinned method (MD)
- •QMI method compenstates for mismodelling strong phase without losing precision due to binning

References