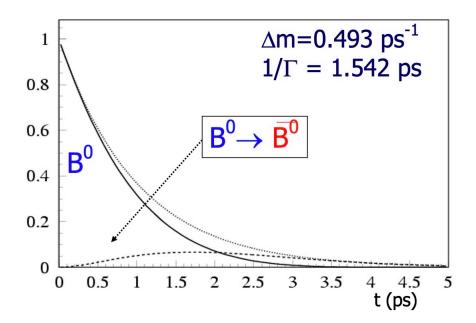
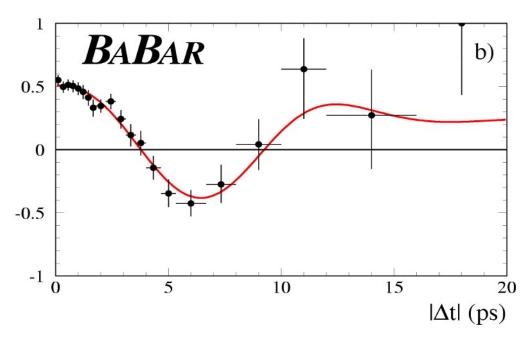


$$P(B^{\circ} \text{ remen } B^{\circ} t) = \frac{e}{z} (1 + \cos \Delta m t)$$

$$P(B^{\circ} \rightarrow B^{\circ} t) = \frac{e^{-t/\tau}}{z} (1 - \cos \Delta m t)$$





because of entensionent.

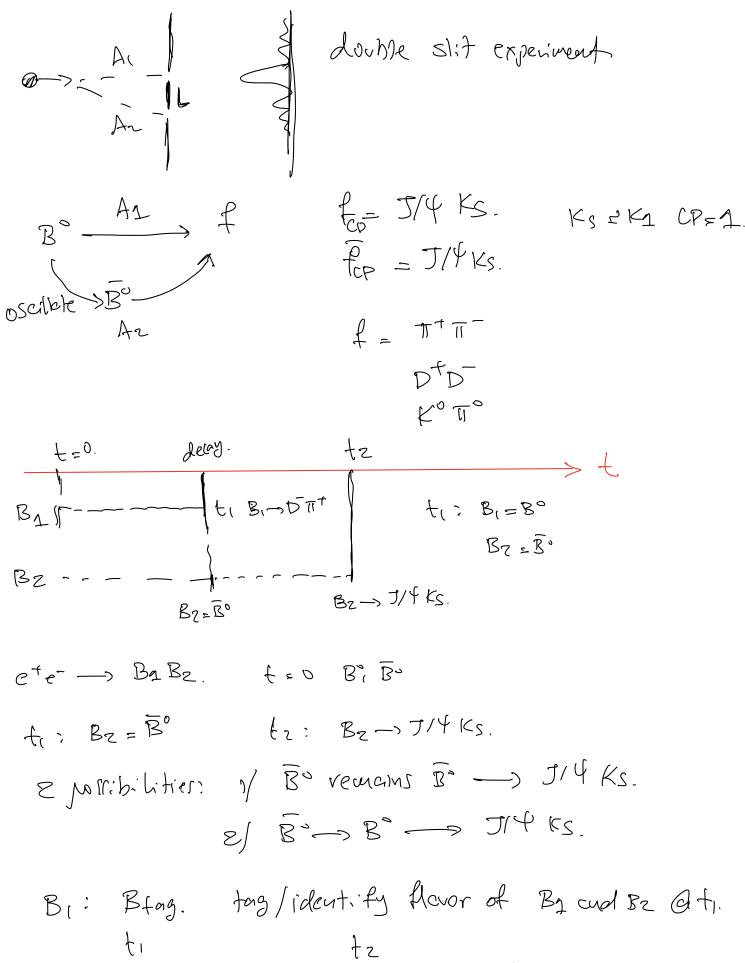
9 tz,
$$Bz = \overline{B}^{\circ} = > \infty$$
 oscillation.
 $Bz = \overline{B}^{\circ} = >$ oscillation.

To Study
$$\varphi b$$
: — Count $B^{\circ} \rightarrow f \neq \overline{B}^{\circ} \rightarrow \overline{f}$

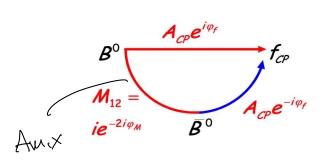
$$B^{\circ} \rightarrow D^{\dagger} K^{\dagger} \neq \overline{B}^{\circ} \rightarrow D^{\dagger} K^{\dagger}.$$

Divect &.

- of in interference between decay and mixing.



By = 7/4 ks.

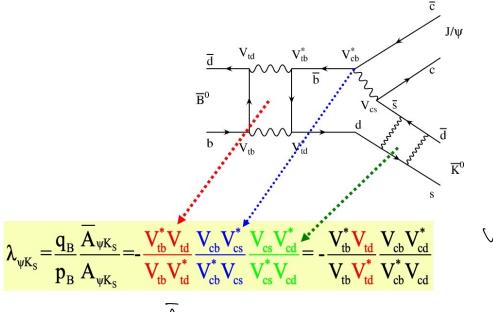


Mel, marin Meliti WILL MES MB

$$\mathbf{V}_{CKM} = \begin{pmatrix} 1 - \lambda^{2}/2 & \lambda & A\lambda^{3}(\rho - i\eta) \\ -\lambda & 1 - \lambda^{2}/2 & A\lambda^{2} \\ A\lambda^{3}(1 - \rho - i\eta) & -A\lambda^{2} & 1 \end{pmatrix} + O(\lambda^{4})$$

$$(1 + \lambda)^{2} = \begin{pmatrix} 1 - \lambda^{2}/2 & \lambda & \lambda^{2} \\ \lambda^{3}(1 - \rho - i\eta) & -A\lambda^{2} & 1 \end{pmatrix}$$

Az: B-B-J14 Ks.



$$\lambda = \frac{9}{P} \frac{\overline{A}}{A}$$

Experimentally
$$\frac{191}{191} = 9$$
 0 $40^{-4} = 100$ Ch in mixing.

$$\frac{1\overline{A1}}{1\overline{A1}} = 1 \quad 0 \quad 1/6 \qquad 1/2 = -i8\beta.$$

$$f(8, 0+) = \frac{e^{-t/\tau}}{2} \left(1 + \frac{1}{2} \sin \Omega \sin \Omega t\right)$$

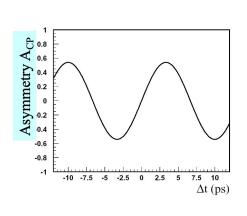
$$f(8, 0+) = \frac{e^{-t/\tau}}{2} \left(1 - \frac{1}{2} \sin \Omega \sin \Omega t\right)$$

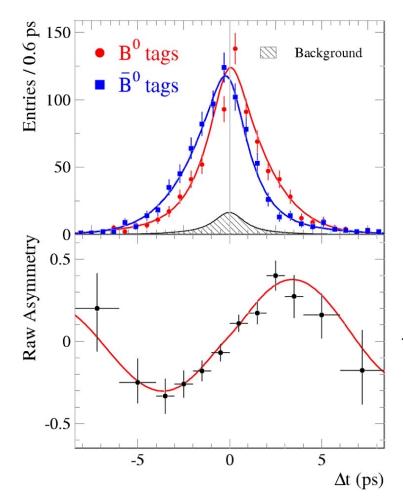
$$t \sin \Omega = \sin \Omega \beta.$$

$$CPasym = \frac{1\overline{A}1^2 - 1A1^2}{1\overline{A}1^2 + (A1^2)} = \frac{4(8^2)J/4r_5}{4(--) + (--)}$$

as function of Dt.

80
70
60
50
B0
80
40
40
-10 -7.5 -5 -2.5 0 2.5 5 7.5 10
Δt (ps)





$$\sin 2\beta = 0.741 \pm 0.067_{(stat)} \pm 0.033_{(syst)}$$