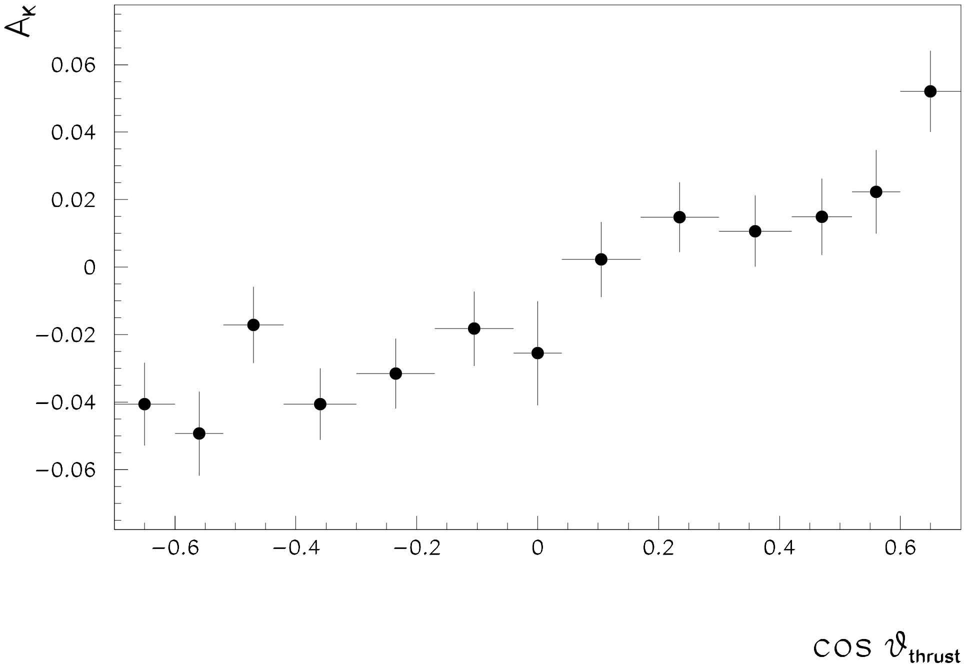
- Measured asymmetry:

$$A_{\mathrm{K}}(\vartheta) = \frac{N_{\mathrm{K}^-}(\vartheta) - N_{\mathrm{K}^+}(\vartheta)}{N_{\mathrm{K}^-}(\vartheta) + N_{\mathrm{K}^+}(\vartheta)}$$

- 1994 data:



- Corrected asymmetry:

$$A_{\mathrm{K}}{}^{corr}(\vartheta) = A_{\mathrm{K}}(\vartheta) + A_{\mathrm{K}}{}^{det}(\vartheta)$$

  - $A_{\mathrm{K}}{}^{det}(\vartheta)$: Correction for the material asymmetry

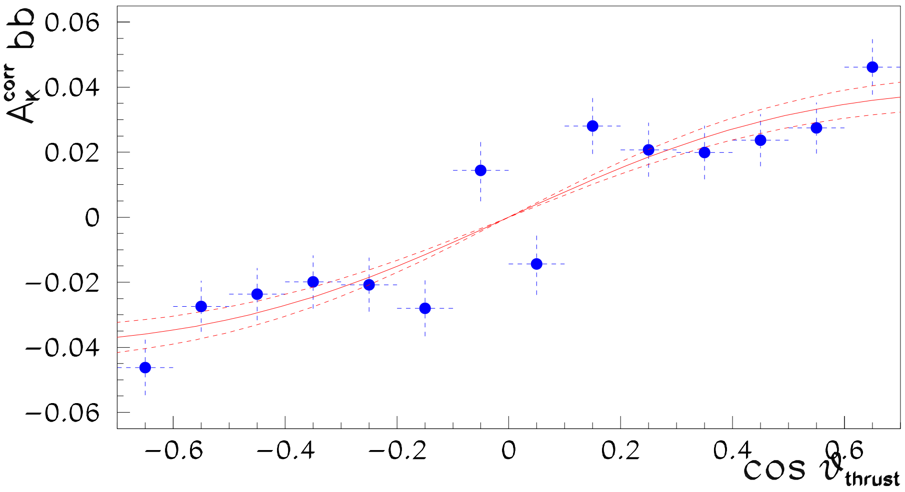
$$A_{\mathrm{K}}{}^{det}(\vartheta) = +\frac{(N_{\mathrm{K}^+}(\vartheta) + N_{\mathrm{K}^+}(\vartheta+\pi)) - (N_{\mathrm{K}^-}(\vartheta) + N_{\mathrm{K}^-}(\vartheta+\pi))}{(N_{\mathrm{K}^+}(\vartheta) + N_{\mathrm{K}^+}(\vartheta+\pi)) + (N_{\mathrm{K}^-}(\vartheta) + N_{\mathrm{K}^-}(\vartheta+\pi))}$$

$$A_{\mathrm{K}}{}^{true}(\vartheta) = \frac{A_{\mathrm{K}}{}^{corr}(\vartheta)}{\Lambda(\vartheta)}$$

  - $\Lambda(\vartheta)$: Correction for the ϑ, $\vartheta+\pi$ efficiency difference

$$\Lambda(\vartheta) = 1 - \frac{(N_{\mathrm{K}^-}(\vartheta) + N_{\mathrm{K}^-}(\vartheta+\pi)) \cdot (N_{\mathrm{K}^+}(\vartheta) + N_{\mathrm{K}^+}(\vartheta+\pi))}{(N_{\mathrm{K}^+}(\vartheta) + N_{\mathrm{K}^+}(\vartheta+\pi)) + (N_{\mathrm{K}^-}(\vartheta) + N_{\mathrm{K}^-}(\vartheta+\pi))^2} \cdot \frac{1-\xi}{1+\xi}$$

$$\xi = \sqrt{\frac{N_{\mathrm{K}^-}(\vartheta+\pi)N_{\mathrm{K}^+}(\vartheta+\pi)}{N_{\mathrm{K}^-}(\vartheta)N_{\mathrm{K}^+}(\vartheta)}}$$

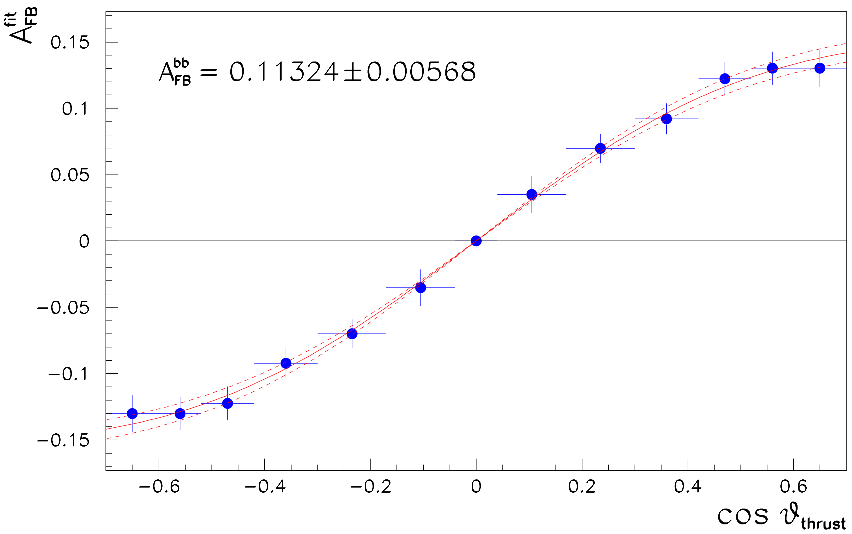


- Fitted asymmetry: Double tag coefficient is now plugged in directly bin by bin

$$A_{\mathrm{K}}{}^{fit}(\vartheta) = \frac{A_{\mathrm{K}}{}^{true}(\vartheta)}{\sqrt{\eta^2(\vartheta)}}$$

$$\eta^2(\vartheta) = \left(\frac{c-w}{c+w}\right)^2 = \frac{(N^{opp}(\vartheta) + N^{opp}(\vartheta+\pi)) - (N^{like}(\vartheta) + N^{like}(\vartheta+\pi))}{(N^{opp}(\vartheta) + N^{opp}(\vartheta+\pi)) + (N^{like}(\vartheta) + N^{like}(\vartheta+\pi))}$$

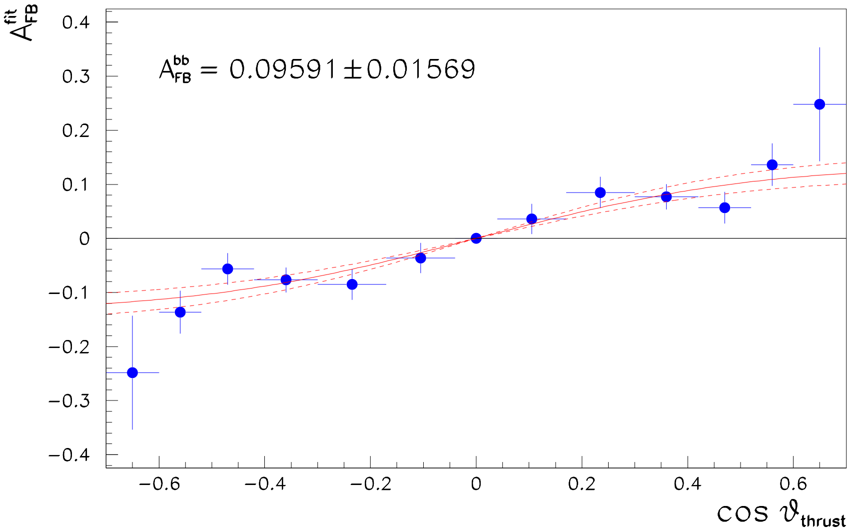
- 1994 MC:



- MC test:

Year	Type of data	$A_{FB}^{b\bar{b}}$
1992	Z^0peak	0.1094 ± 0.0082
1993	Z^0peak	0.1017 ± 0.0088
1994	Z^0peak	0.1132 ± 0.0057
1995	Z^0peak	0.1207 ± 0.0139

- 1994 data:



Year	Type of data	$A_{FB}^{b\bar{b}}$
1992	Z^0peak	0.0428 ± 0.0126
1993	Z^0peak	0.0399 ± 0.0150
1994	Z^0peak	0.0959 ± 0.0157
1995	Z^0peak	0.0663 ± 0.0203

$\Rightarrow$ Problems...yet to be solved