in $K_S \to \pi^+\pi^-\pi^0$ Final 208,000 ev
$\pi^0\pi^0\pi^0$ Prel. 4,300 ev. (25% data)

CP eigenvalues for 3π is $(-1)^{1+l}$
where l = # momenta ∴

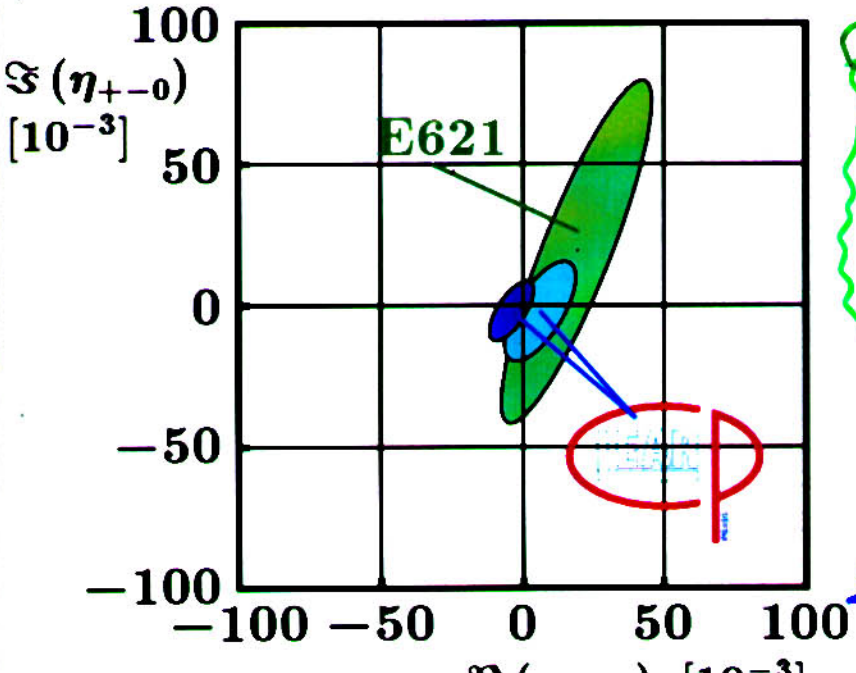
$K_S \to 3\pi$ → $l=0$ ~~CP~~
→ $l=1$ Kinematically suppressed

$\eta_{3\pi} = \varepsilon + \varepsilon'_{3\pi}$

Actually measured:

$$A^{(\tau)}_{+-0} = \Gamma(\bar{K}^0 \to \pi^+\pi^-\pi^0) - \Gamma(K^0 \to \pi^+\pi^-\pi^0) / (\text{+ +})$$

$$\propto \mathrm{Re}(\eta_{+-0}) \cos(\Delta m \tau) - \mathrm{Im}(\eta_{+-0}) \sin(\Delta m \tau)$$



$\mathrm{Re}(\eta_{+-0}) = (-2 \pm 7^{+4}_{-1}) \cdot 10^{-3}$

$\mathrm{Im}(\eta_{+-0}) = (-2 \pm 9^{+2}_{-1}) \cdot 10^{-3}$

(May 97, CERN/PPE 97-54)

$\mathrm{Re}(\eta_{000}) = (0.15 \pm 0.3)$

$\mathrm{Im}(\eta_{000}) = (0.29 \pm 0.4)$