$\boxed{\text{UAB}}$

* <u>Scalars</u> (Bramon, <u>Escribano</u> + Pancheri)

i) f_0, σ contributions to $\phi \to \kappa^+ \kappa^- \gamma$ within LσM
$$\qquad\qquad\qquad\qquad\qquad\hookrightarrow \pi^0 \pi^0$$

   agreement with $\begin{cases} \text{VEPP-2M (Novosibirsk)} \\ \text{Da}\phi\text{ne} \quad \text{(Frascati)} \end{cases}$ data.

   $\Rightarrow f_0(980)$ isoscalar member in scalar nonet.

ii) study of shape of $f_0(980)$ (<u>Escribano</u>)

iii) use of $U_3 \times U_3$ LσM to study $L_3, L_5, L_8 \in \mathcal{L}_{\chi PT}^{(4)}$
   (<u>Bramon</u>, <u>Escribano</u> + Pancheri)

* <u>Tests of QM</u> (<u>Bramon</u>, <u>Garbarino</u>)

   New Bell's inequalities for $\kappa^0 \bar{\kappa}^0$ pairs.

   $\Rightarrow$ Test @ Daϕne   — PRL 89 (2002) —
   (κ^0-detection people could help).

* EW matrix elements (Bcn - Mrs Coll.)

$\hookrightarrow$ Marc's talk

i) $\langle (\pi\pi)_2 | Q_6 | K^0 \rangle$ in $1/N_c$. (Peris + Hambye + de R...

$$\Rightarrow \epsilon'/\epsilon \qquad (\text{Eduardo's talk}).$$

ii) impact of higher terms in OPE on B_K^{χ}
(Cata , Peris)
$\hookrightarrow$ talk

iii) χ corrections to B_K , $\Delta I = 1/2$, g_8, g_{27} ....

* $(g-2)_\mu$

2 - loop hadronic contribution
(Peris + Knecht + Perrottet + de Rafael)

$\leftarrow$ EW anomaly

- 2 -
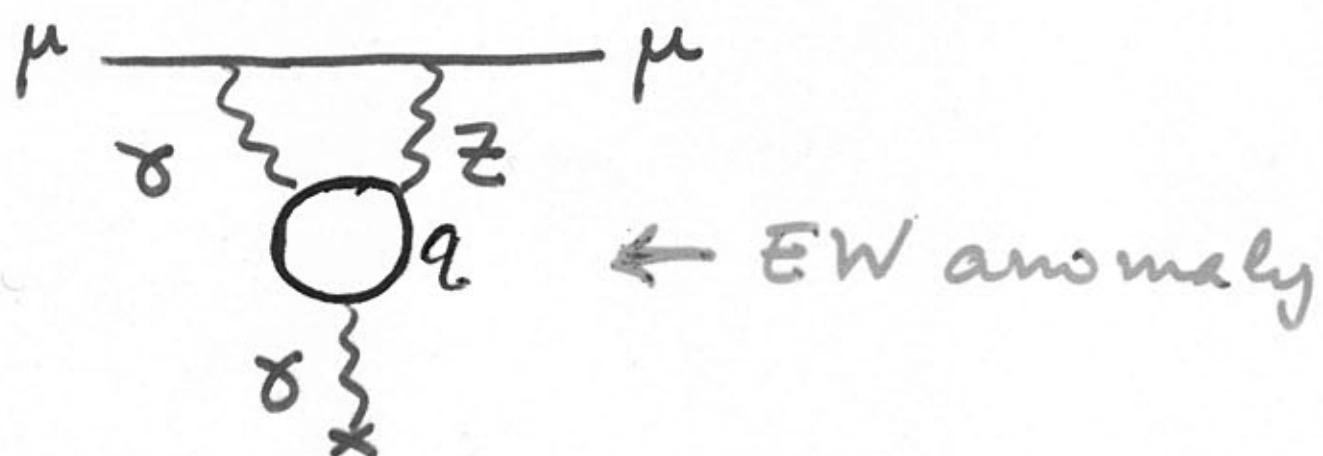
UB

* **b & c quark Physics** (Pineda, Soto)

i) extraction of m_b, α_s from sum rules, masses and decays of $\Upsilon(1S)$, η_b.

ii) study of $b\bar{b}$ and $c\bar{c}$.
   (η_b in particular)

* **N × N; HBET; Hadronic atoms** (Pineda, Soto)

→ talk
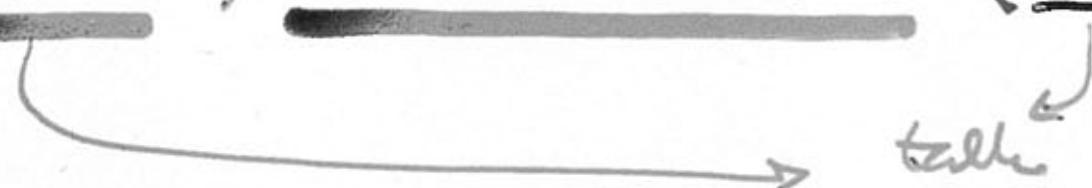
* **Hypernuclei** (Garbarino, Parreño, Ramos)

Prediction of $\dfrac{\Gamma(\Lambda n \to nn)}{\Gamma(\Lambda p \to np)}$ within OME model

⟹ agreement with preliminary data from KEK-E462 for $^5_\Lambda$He decay.

* **Quark models; Hadronic strings** (Espriu)

Extension of χPT to higher energies.
Strong interaction effects in EW theory.

* **CP violation** (Espriu)

i) t decay (+ D'Ambrosio)
ii) New Physics

UG
(Granada – Lund Coll.) → Hans's talk
(Granada – Valencia Coll.) → Eulogio's talk

(Prades, Gamiz)

* **EW matrix elements**

B_K, g_8, g_{27}, ϵ'/ϵ in $1/N_c$
and x corrections; $K \to 3\pi$, $O(p^4)$.

* Re-evaluation of $\underline{\gamma \times \gamma}$ to $(g-2)_\mu$

* Form factors in $B \to \pi's$
$\to K's$

* strange quark mass