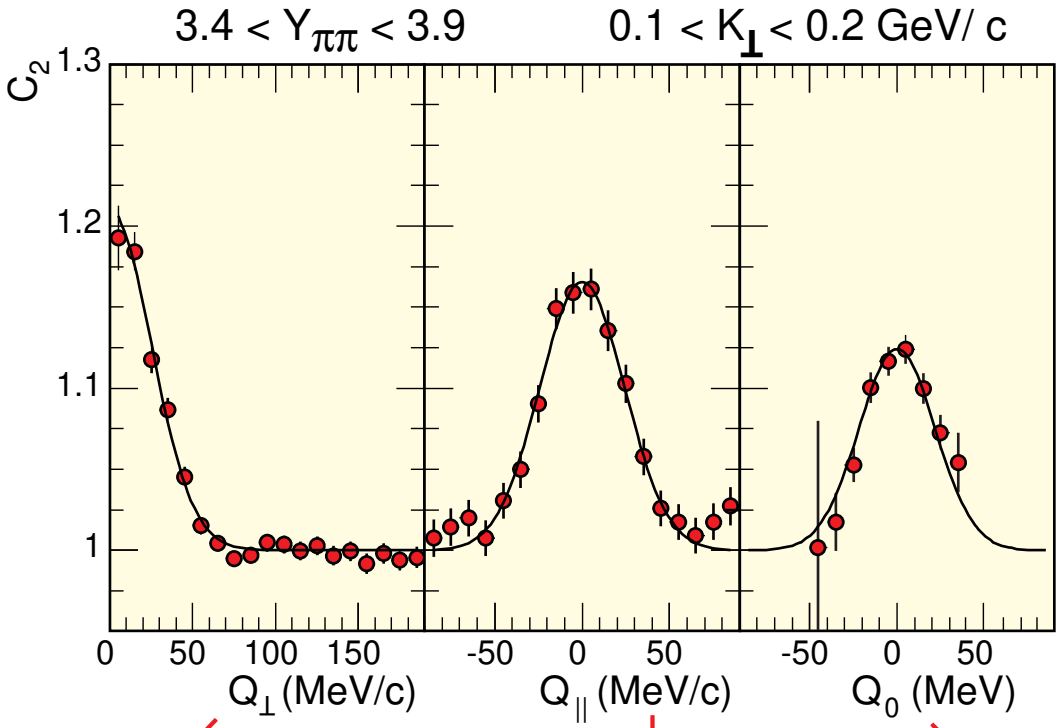
NA49 Pb+Pb 2π – Bose Einstein Correlations

in small bins of pair rapidity and $K_\perp$



from the $Y_{\pi\pi}$ and $K_\perp$ dependence of the correlation parameters :

$R_\perp$ R_{II} β_{YK} R_0

$R_\perp$	R_{II} β_{YK}	R_0
R_G geometrical radius $\beta_\perp^2$ trans. expansion vel^2 T freeze-out Temperature	τ lifetime β_{II} long. expansion velocity	$\Delta\tau$ duration of emission

Conditions at freeze-out

- **source size 2.5 x larger than primordial size**
- **lifetime τ = 8 fm/c**
- **$\beta_\perp^2$ / T = 3.7 $\pm$ 1.6 GeV^{-1} β_{II} = 0.9**
- **duration of emission $\Delta\tau$ = 3.5 fm/c**