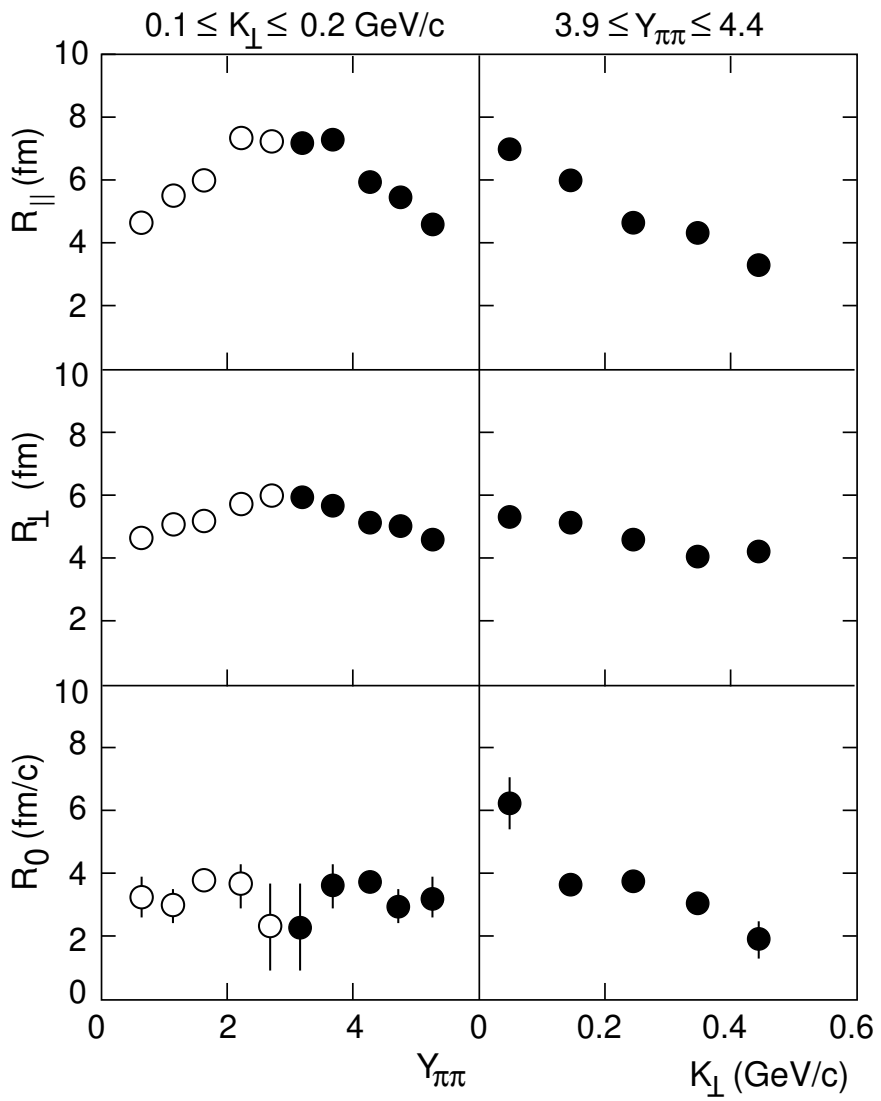
## Two-pion Correlation Function:

$$C_2(Q_\perp, Q_\parallel, Q_0; Y_{\pi\pi}, K_\perp) = 1 + \lambda \exp\left[\begin{array}{r} -Q_\perp^2 R_\perp^2 \\ -\gamma_{YK}^2 (Q_\parallel - \beta_{YK} Q_0)^2 R_\parallel^2 \\ -\gamma_{YK}^2 (Q_0 - \beta_{YK} Q_\parallel)^2 R_0^2 \end{array}\right]$$




- $R_\parallel, R_\perp$ peak at mid-rapidity: 6–7 fm.
- $R_\parallel, R_\perp$ decrease with pair momentum $K_\perp$.
- Duration of emission $R_0 = \Delta\tau$ = 3–4 fm.