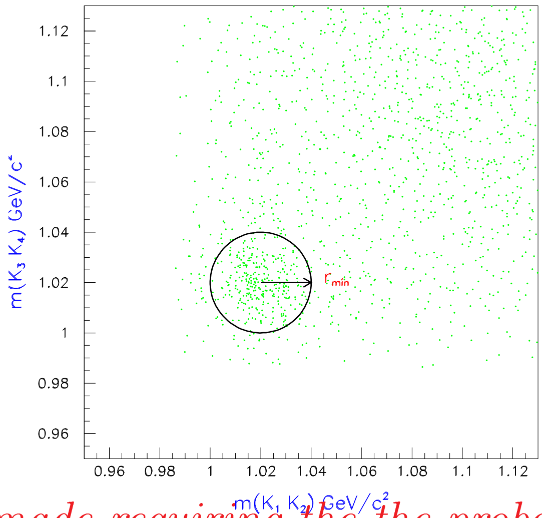
Background

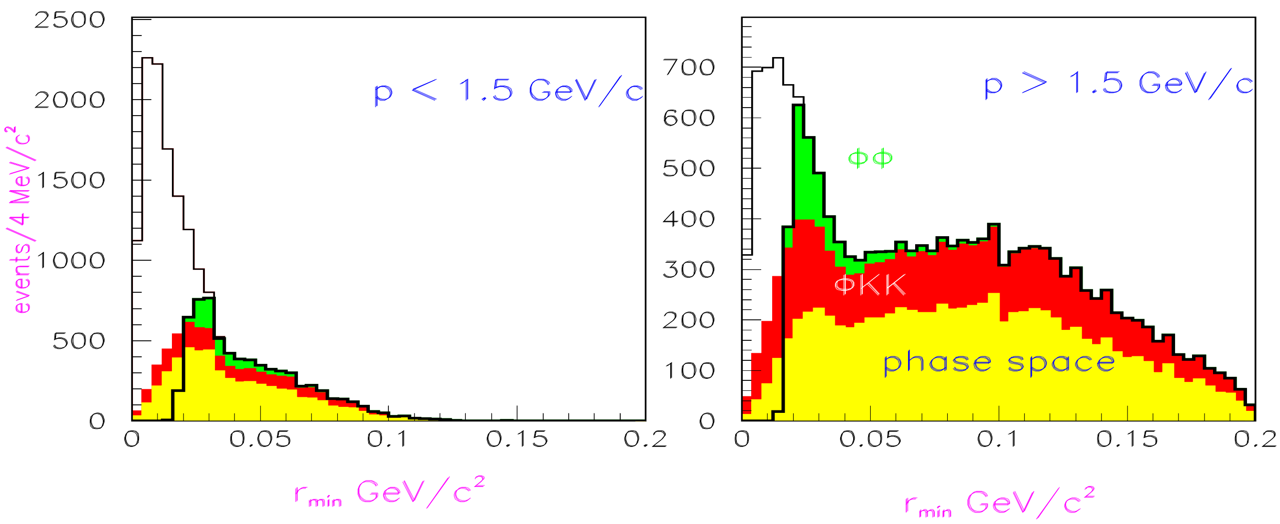
For each event we have three combinations. The right combination is choosen by taking the minimum of:

$$r = \sqrt{(m_\phi - m(K_1K_2))^2 + (m_\phi - m(K_3K_4))^2}$$



The cut was made requiring the the probability of an event to be $\phi\phi$ (from the channel likelihood fit) to be greater than 50 %

Plot of r_{min} in two regions of $\bar{p}$ momentum



Signal to background

4.1	$p < 1.5 GeV/c$
2.4	$p > 1.5 GeV/c$