

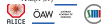
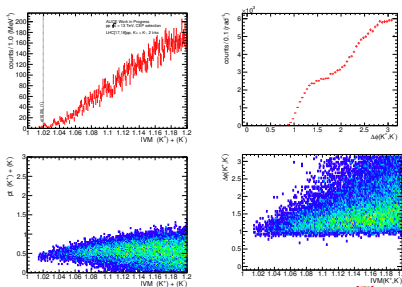
Status $\phi(1020)$ in double gap events Run3

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Diff PAG meeting, apr 29, 2021

ϕ , $\phi\phi$ -pairs in double gap events

- Central exclusive production in K^+K^- pairs in pp-collisions, Lebedowicz et al, arXiv:1810.01171, 1804.04706
- Central exclusive diffractive production of $K^+K^-K^+K^-$ via the intermediate $\phi\phi$ state in proton-proton collisions, Lebedowicz et al, arXiv:1901.11490.
- P. Bühler. ALICE CEP in LHC[17.18] pp. CCUP25 trigger
2-track CCUP25 events - K^+K^-

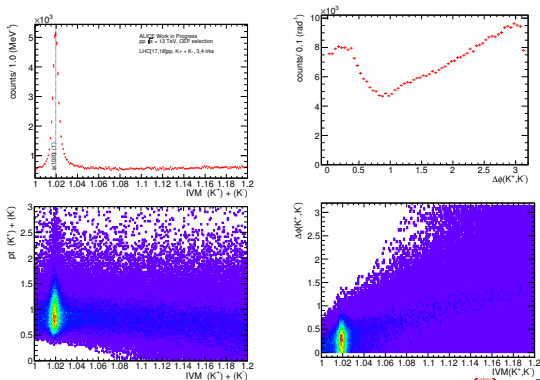


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$\phi, \phi\phi$ -pairs in double gap events

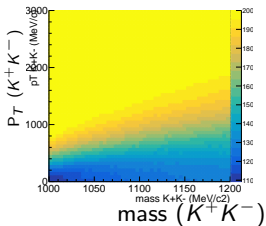
- P. Bühler, ALICE CEP in LHC[17,18] pp, CCUP25 trigger

3/4-track CCUP25 events - K^+K^-

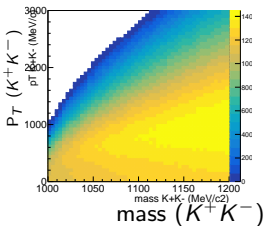


Acceptance Run3 $\phi(1020)$ in double gap events

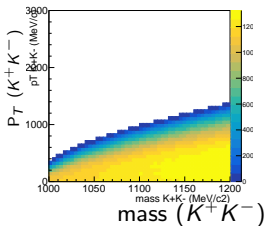
- simple generator for K^+K^- pairs, rapidity range $-0.5 < y < 0.5$
- isotropic distr. K^+, K^- in K^+K^- CM-frame
- K^+, K^- within pseudorapidity $-0.9 < \eta < 0.9$



no cut $\Delta\phi(K^+, K^-)$



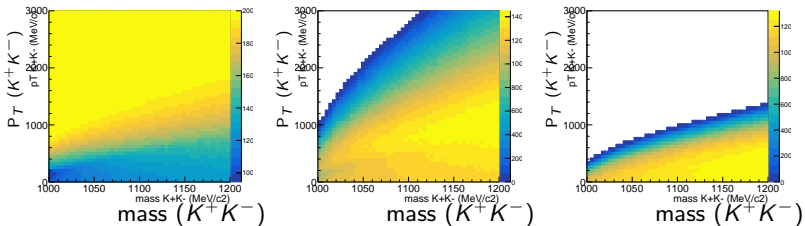
$\Delta\phi(K^+, K^-) > 20^\circ$



$\Delta\phi(K^+, K^-) > 54^\circ$

Acceptance Run3 $\phi(1020)$ in double gap events

■ trans. momentum $K^+, K^- > 30$ MeV/c



■ trans. momentum $K^+, K^- > 120$ MeV/c

