

K/ π separation.

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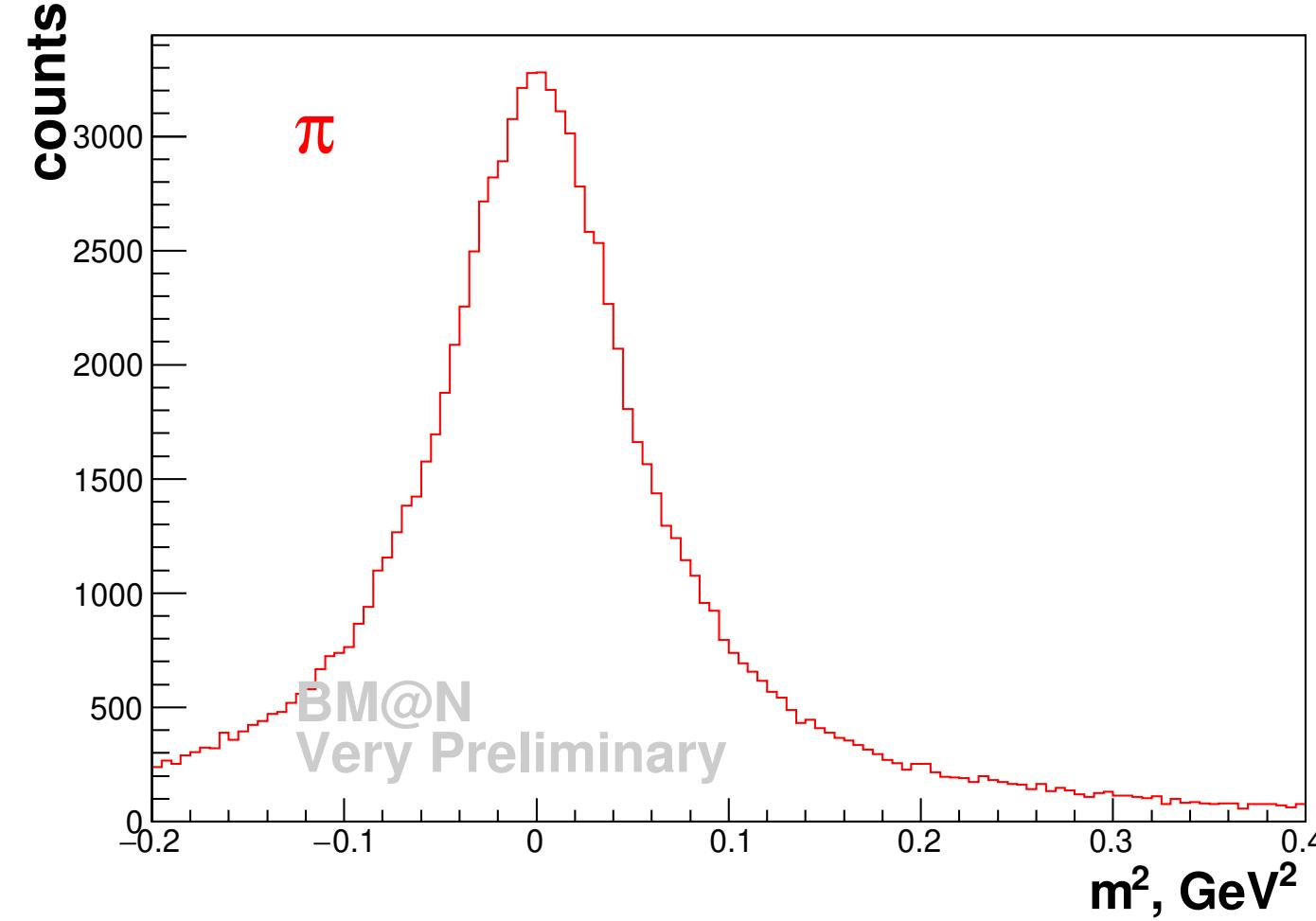
November 8, 2021

Method.

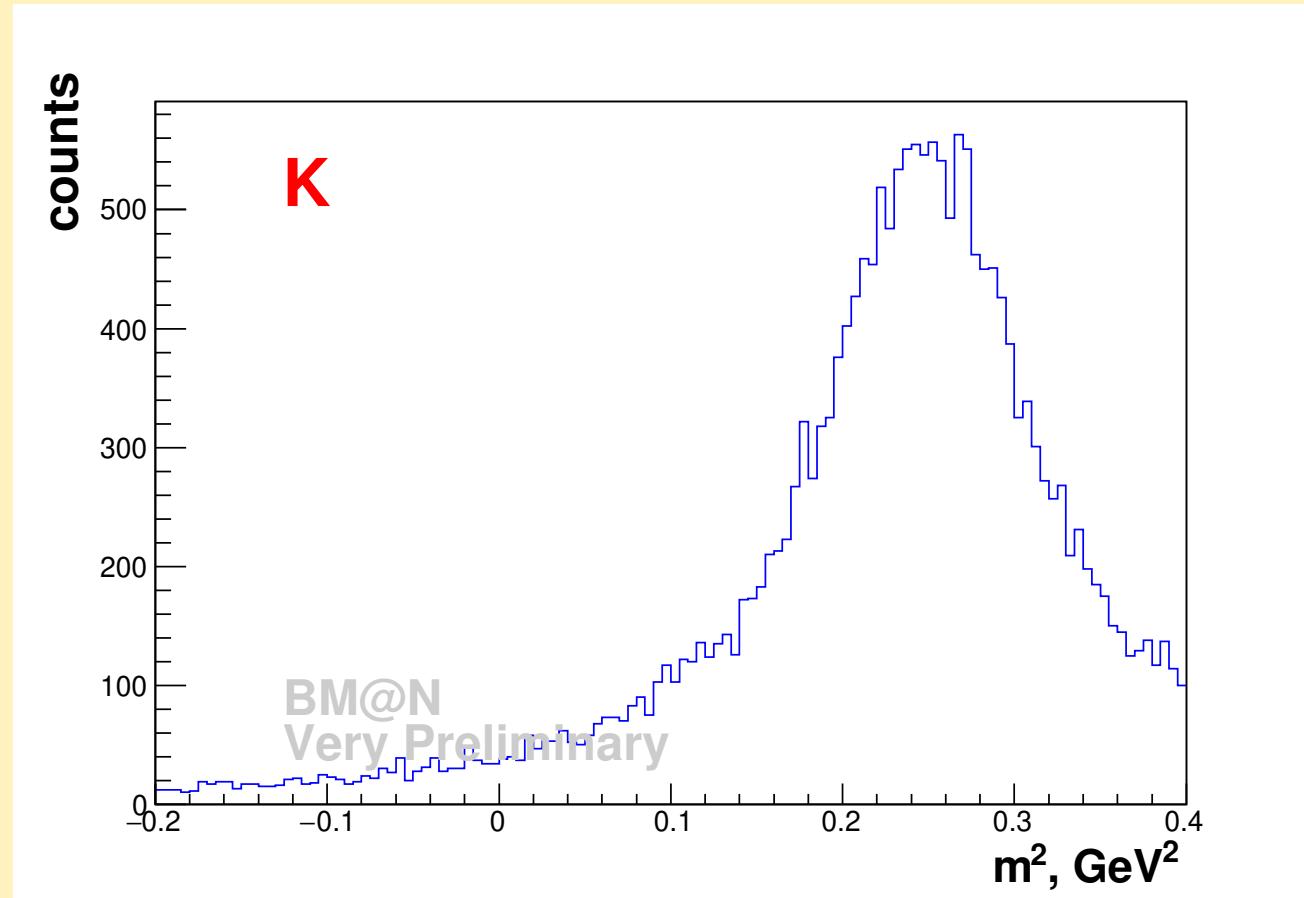


- Generate m^2 distribution with $\langle m^2 \rangle = 0.$, $\sigma = 0.04$ – pions
- Generate m^2 distribution with $\langle m^2 \rangle = 0.25$, $\sigma = 0.3$ – Kaons.
- Summ generated distributions - $K\pi$.
- Fit the Summ.
- Form weights based on the fit functions.
- Generate $\langle m^2 \rangle$ distribution follow the Summ.
- Fill 2 weighted distributions for π and K .
- Create the ratios - weighted to generated/

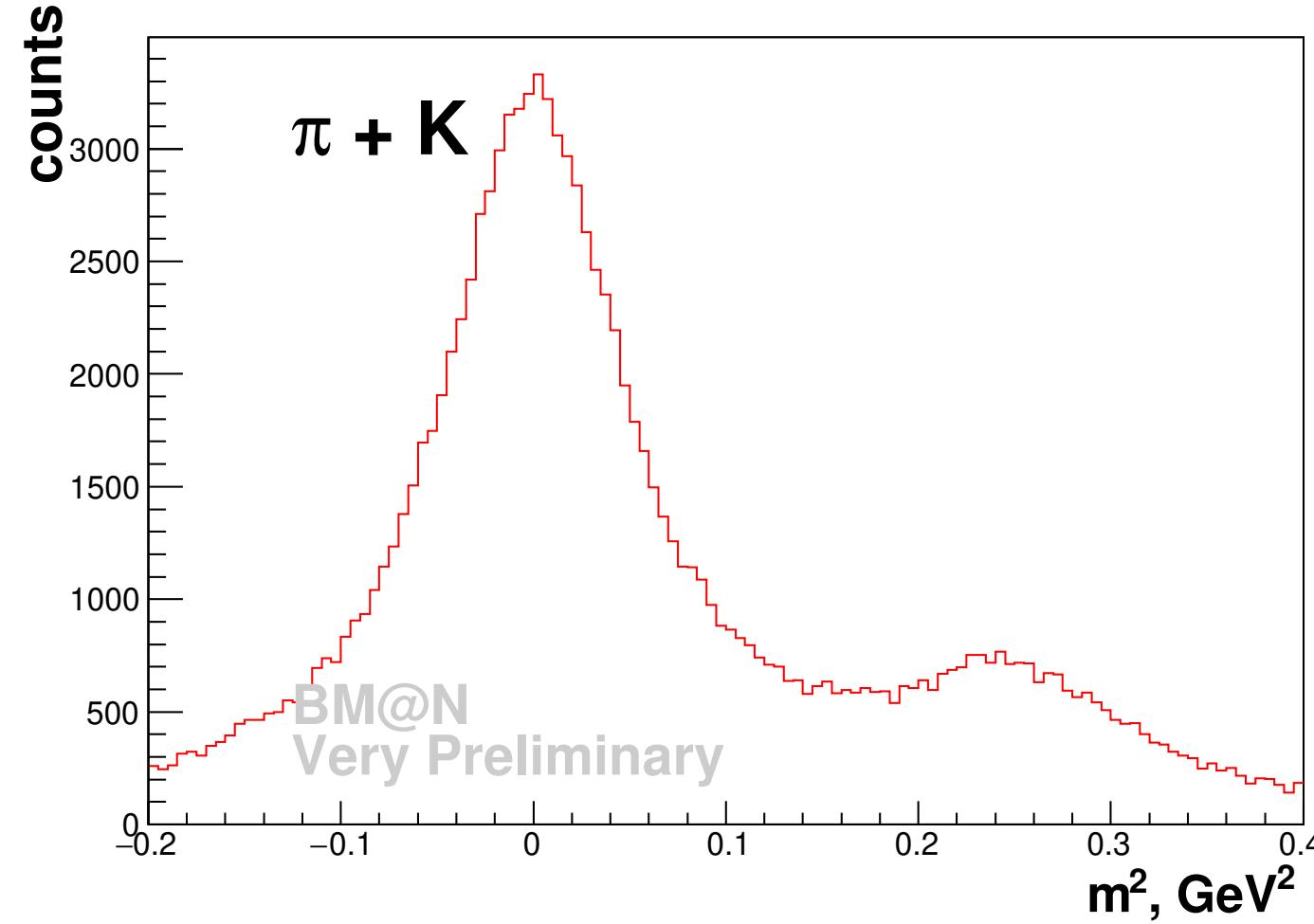
Pions distribution



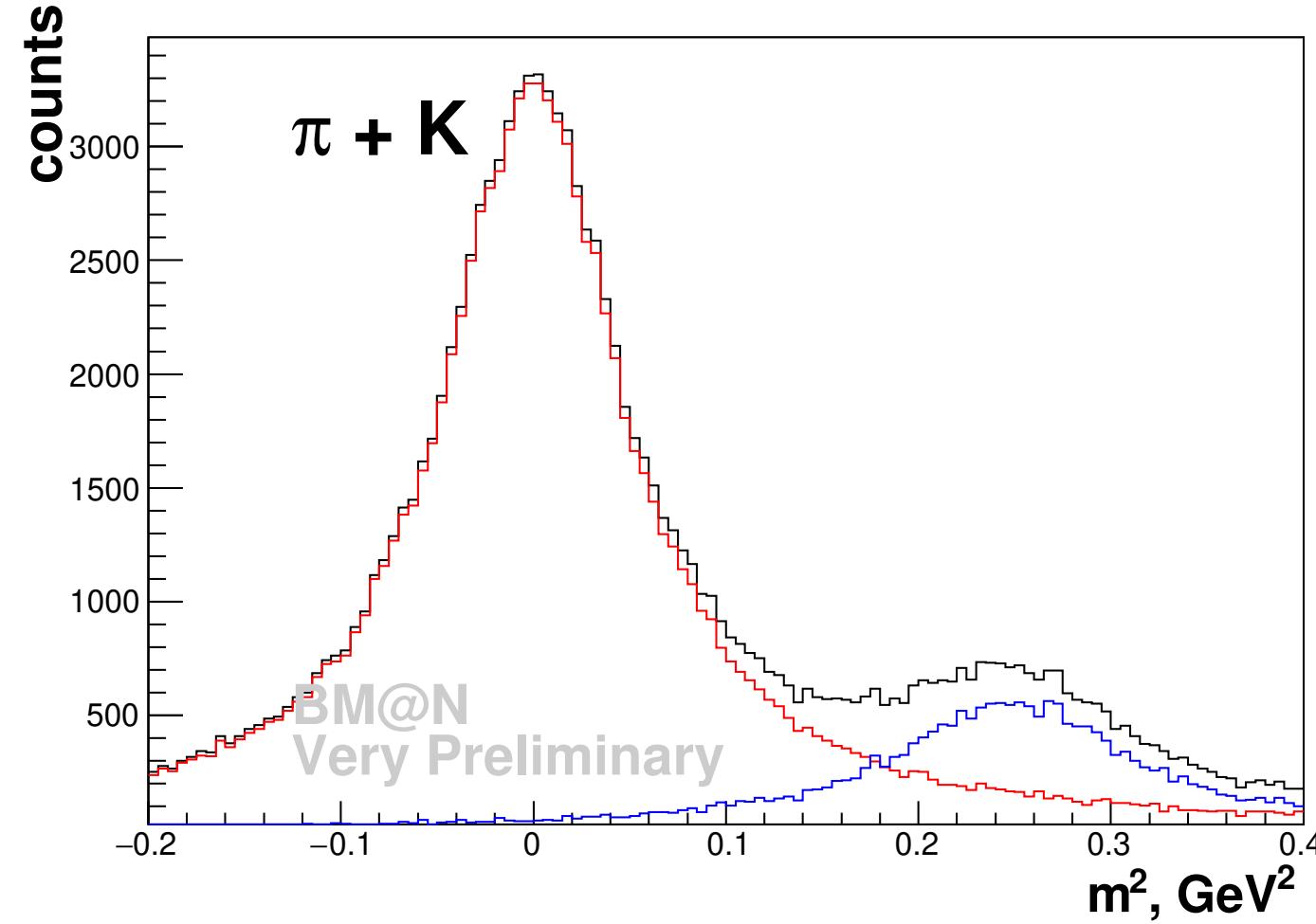
Kaon distribution

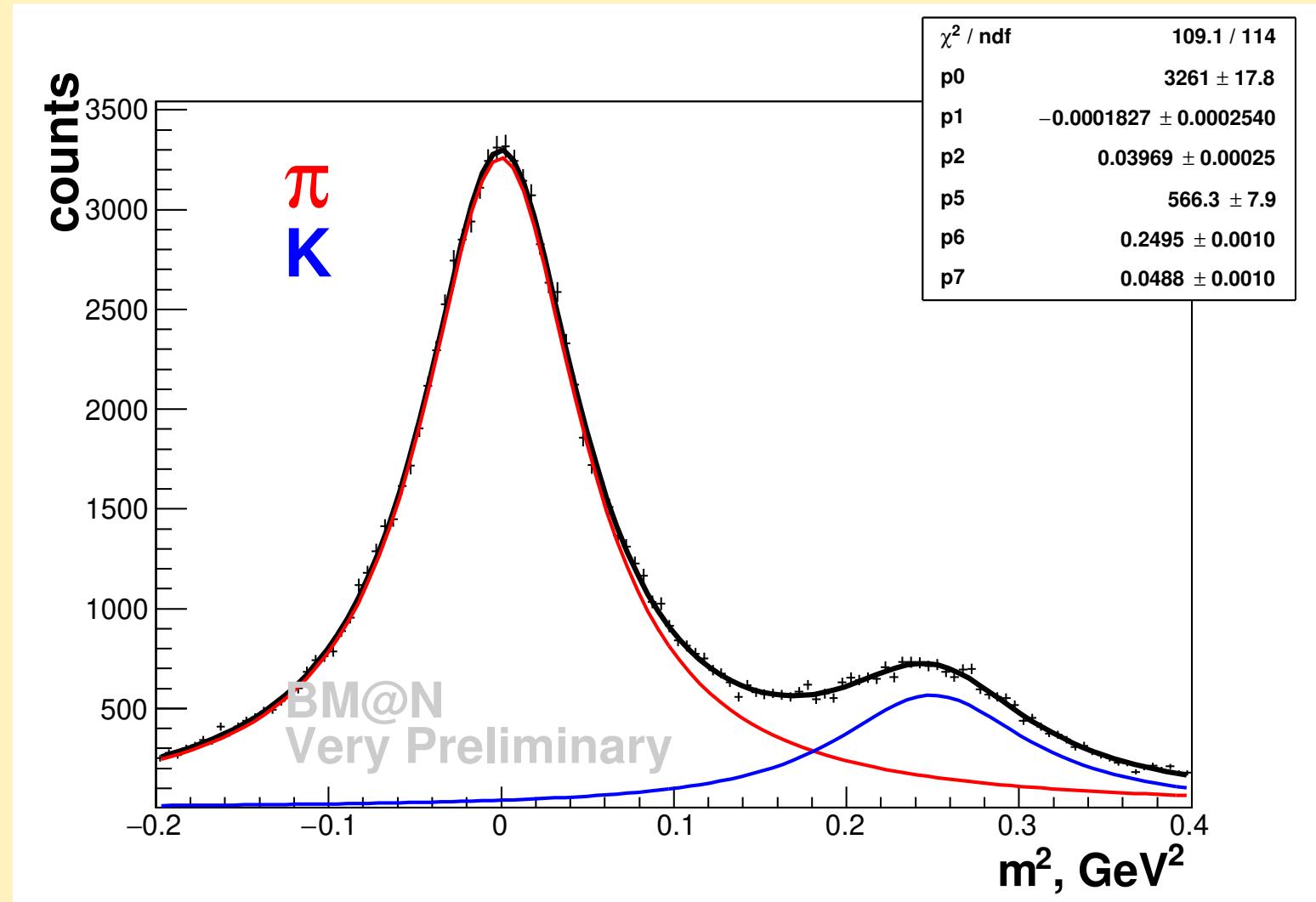


Summ of pions and kaons distributions.

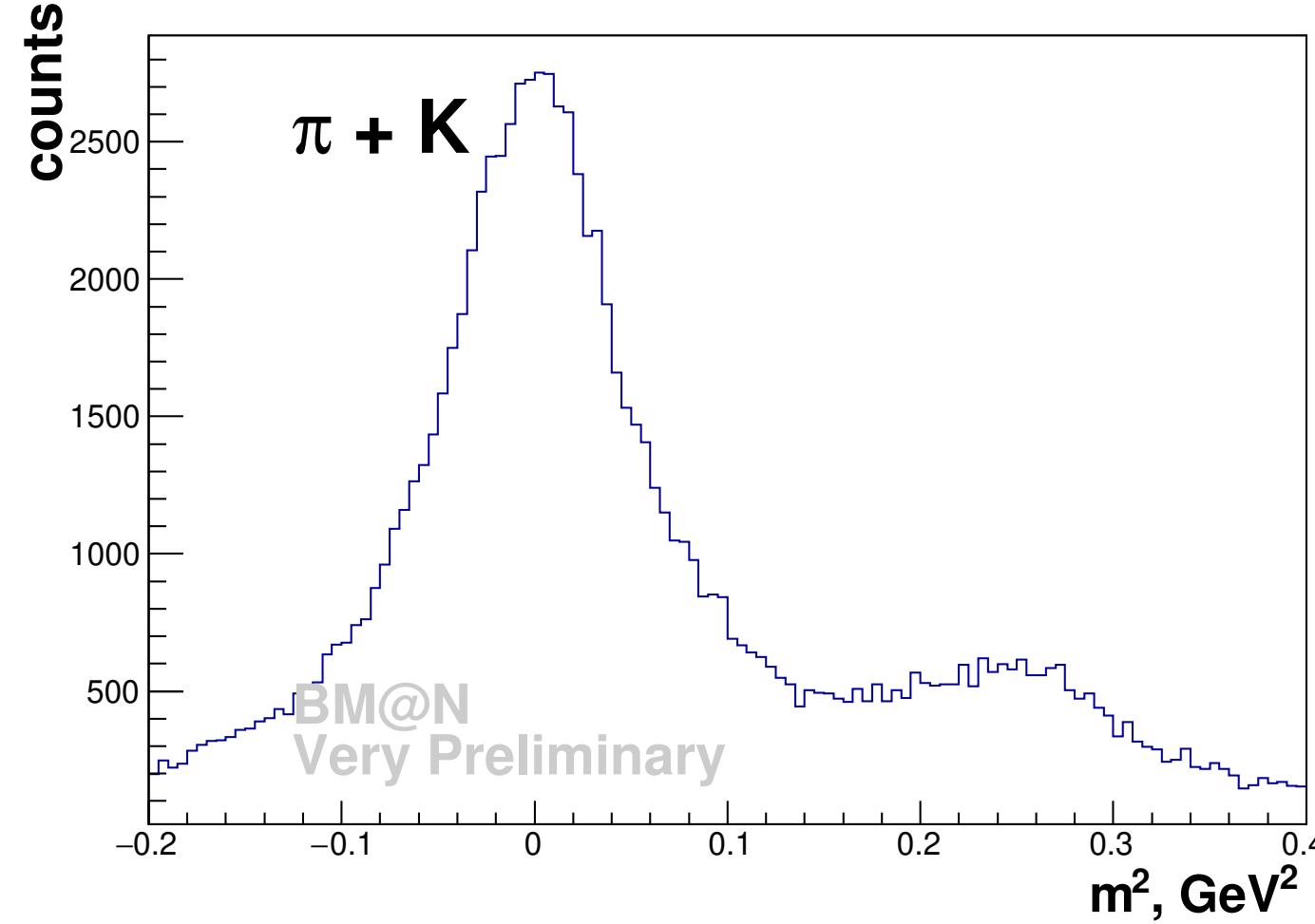


Summ , pions and kaons overlaped.





Generate the distribution.



Generated/weighted ratio.

