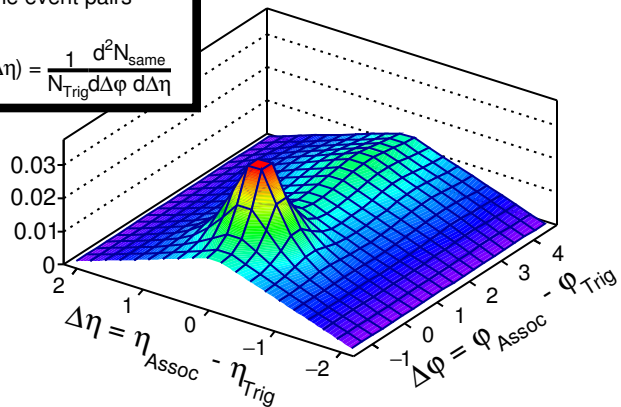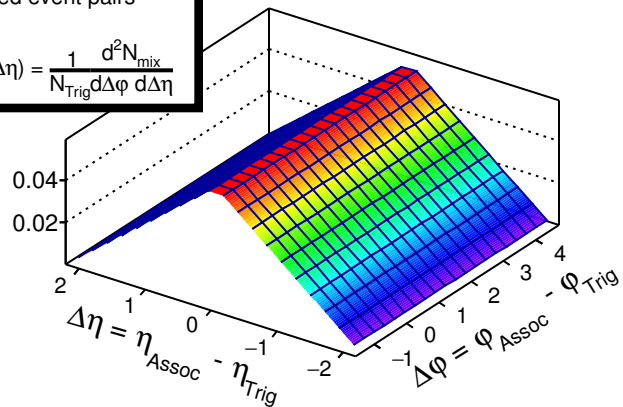Same event pairs

$$S(\Delta\varphi, \Delta\eta) = \frac{1}{N_{Trig}} \frac{d^2 N_{same}}{d\Delta\varphi \, d\Delta\eta}$$

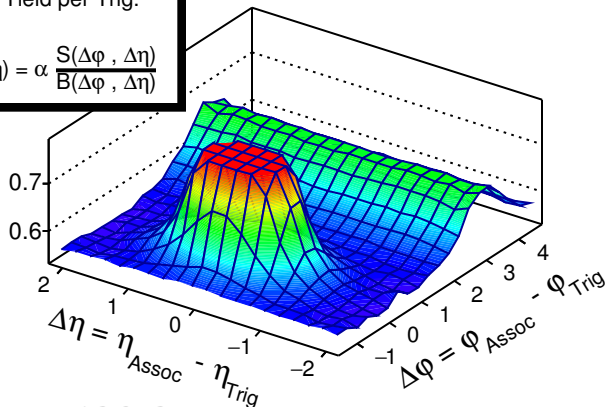$\Delta\eta = \eta_{Assoc} - \eta_{Trig}$

$\Delta\varphi = \varphi_{Assoc} - \varphi_{Trig}$

Mixed event pairs

$$B(\Delta\varphi, \Delta\eta) = \frac{1}{N_{Trig}} \frac{d^2 N_{mix}}{d\Delta\varphi \, d\Delta\eta}$$

$\Delta\eta = \eta_{Assoc} - \eta_{Trig}$

$\Delta\varphi = \varphi_{Assoc} - \varphi_{Trig}$

Associ. Yield per Trig.

$$C(\Delta\varphi, \Delta\eta) = \alpha \frac{S(\Delta\varphi, \Delta\eta)}{B(\Delta\varphi, \Delta\eta)}$$

$\Delta\eta = \eta_{Assoc} - \eta_{Trig}$

$\Delta\varphi = \varphi_{Assoc} - \varphi_{Trig}$

ALICE Simulation

PYTHIA8 (Monash2013)

pp $\sqrt{s}$ = 13 TeV

$1 \leq p_{T,Assoc} < p_{T,Trig} < 4$ GeV/c

ALI-SIMUL-136734