



中国科学院高能物理研究所
Institute of High Energy Physics
Chinese Academy of Sciences



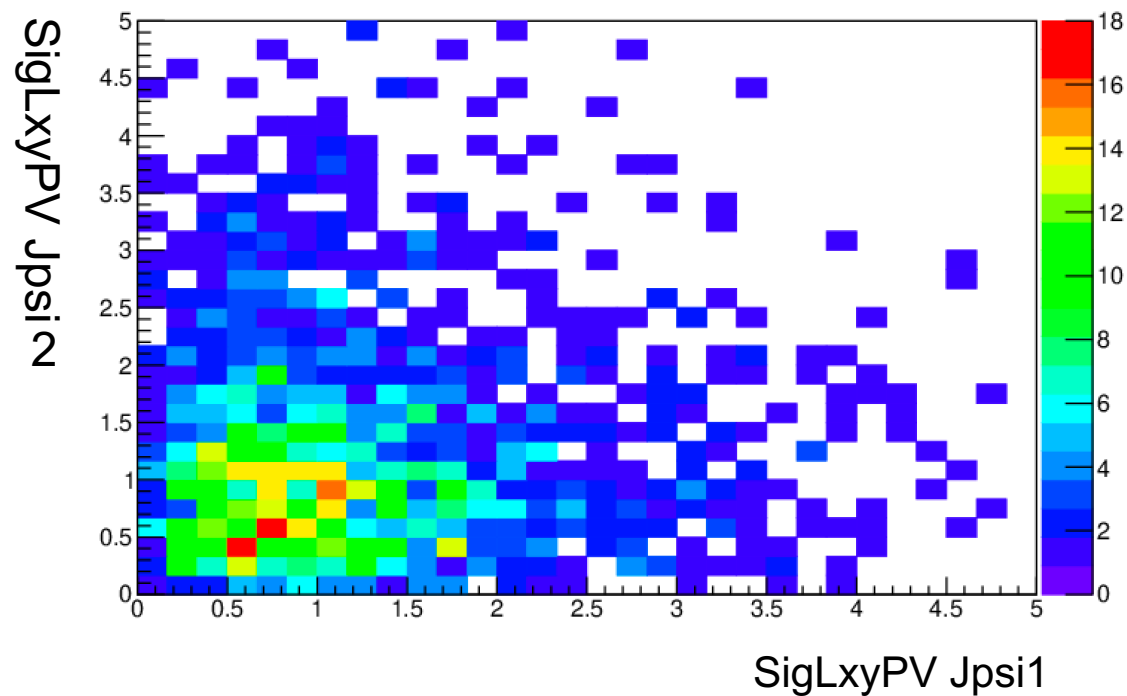
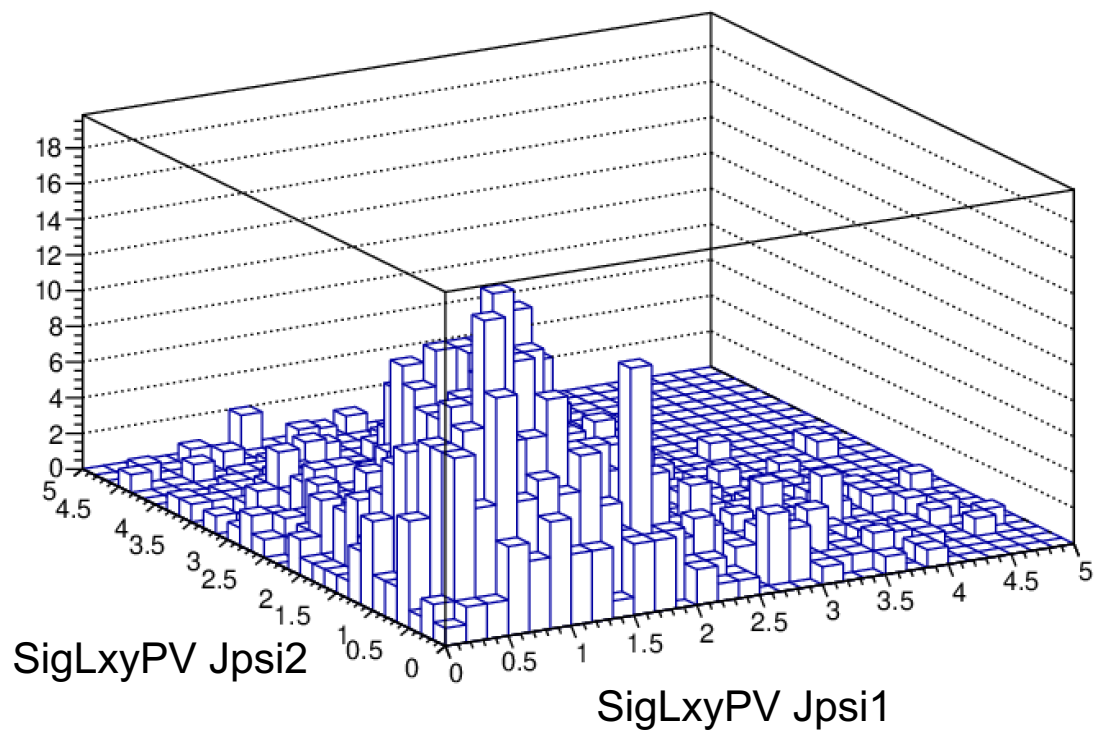
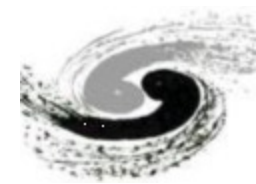
Double Jpsi work status

Taozhe YU

2022.12.1

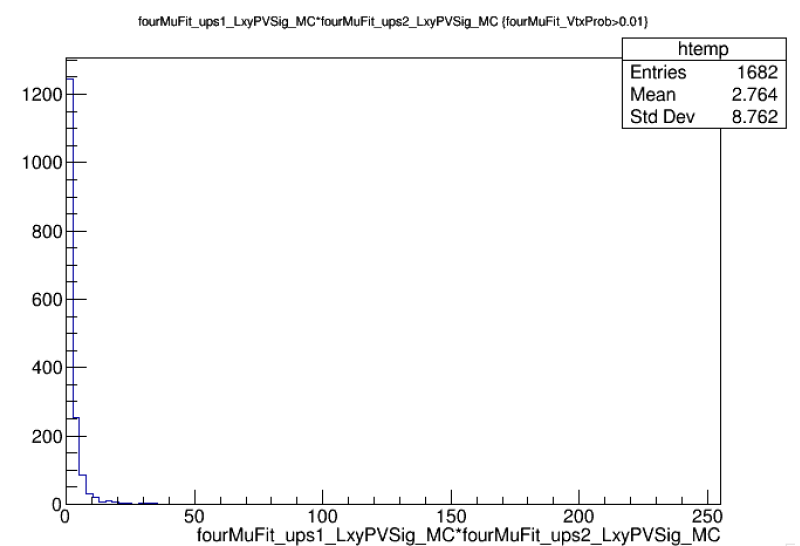
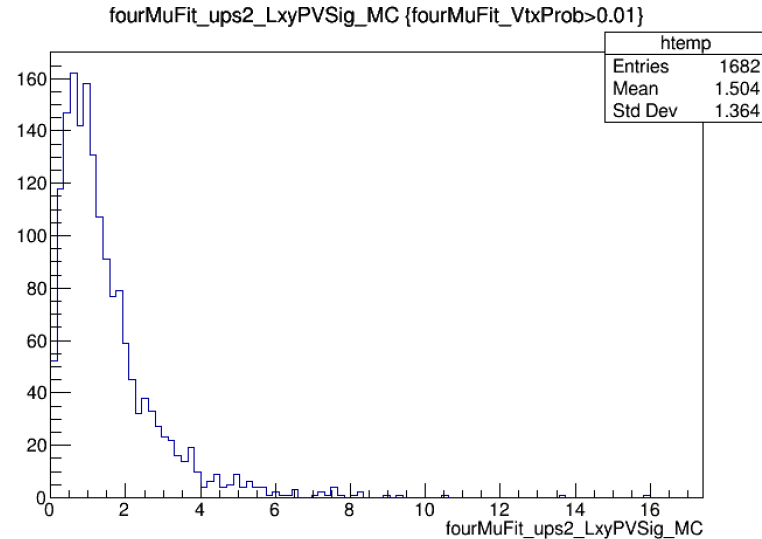
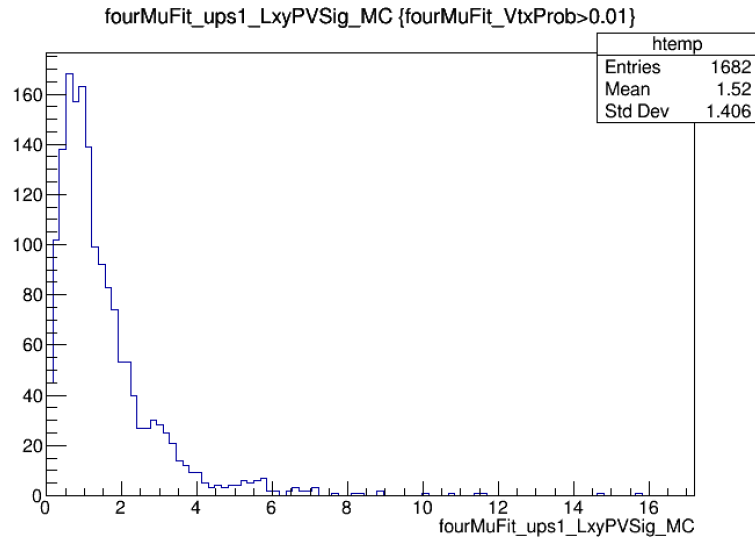


2D distribution of SigLxyPV Jpsi1/2



- 2D distribution of SigLxyPV Jpsi1/2

- 随机变量X和Y的协方差: $cov(X, Y) = E(XY) - E(X)E(Y)$
- 随机变量X和Y的相关系数定义为: $\rho_{XY} \equiv \frac{cov(X, Y)}{\sigma(X)\sigma(Y)}$



计算得到相关系数为:

$$(2.764 - 1.52 * 1.504) / (1.406 * 1.406 * 1.364 * 1.364) = 0.12229$$