

# Paper: $K_S^0$ and $\Lambda$ Production in Jets and the Underlying Event in p–Pb at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE – Physics Results

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# 1 $\Lambda$ -to- $K_S^0$ ratio in jets as a function of $p_T$

## 1.1 $\Lambda$ -to- $K_S^0$ ratio in jets with various resolution parameters

### 1.1.1 V0A Event Activity Estimator

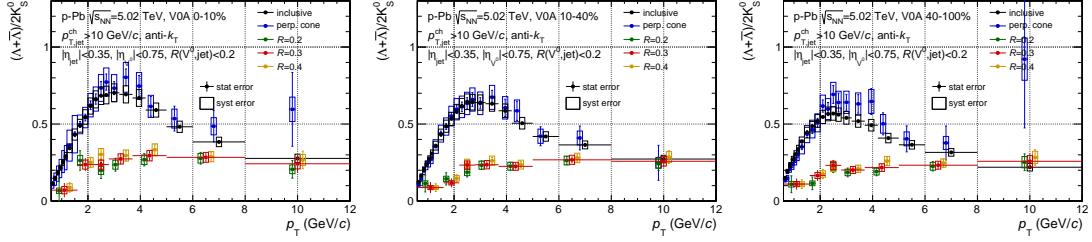


Figure 1:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 10$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.2$ . Results are shown in three V0A event activity classes and compared with the inclusive and the underlying  $V^0$ s.

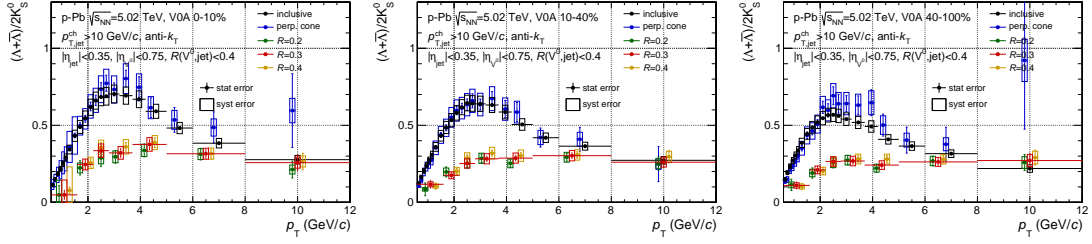


Figure 2:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 10$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.4$ . Results are shown in three V0A event activity classes and compared with the inclusive and the underlying  $V^0$ s.

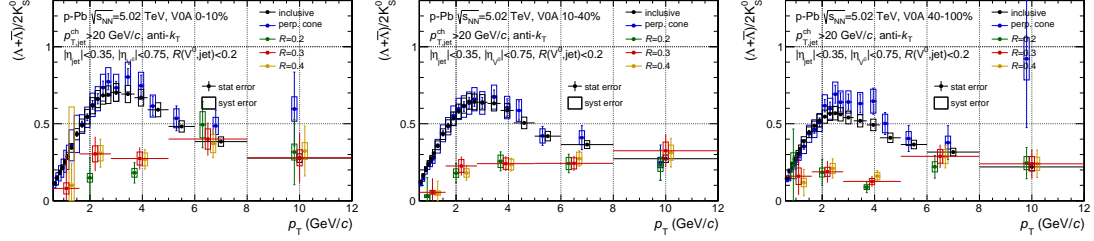


Figure 3:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 20$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.2$ . Results are shown in three VOA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

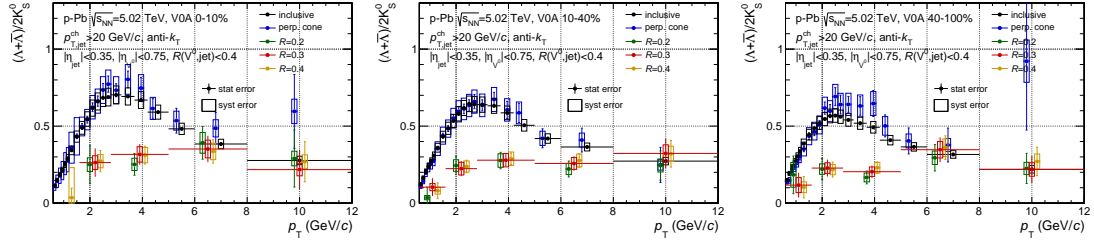


Figure 4:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 20$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.4$ . Results are shown in three VOA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

### 1.1.2 ZNA Event Activity Estimator

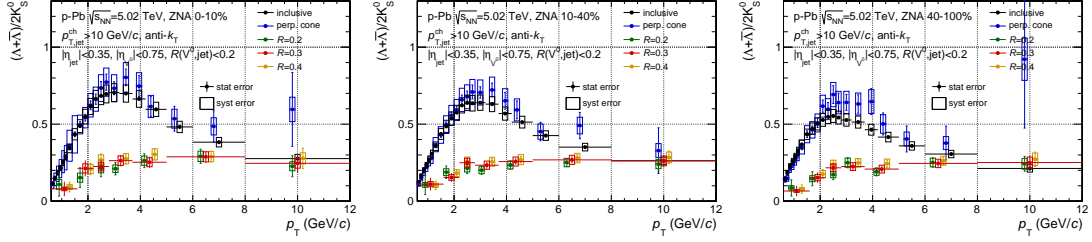


Figure 5:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 10$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.2$ . Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

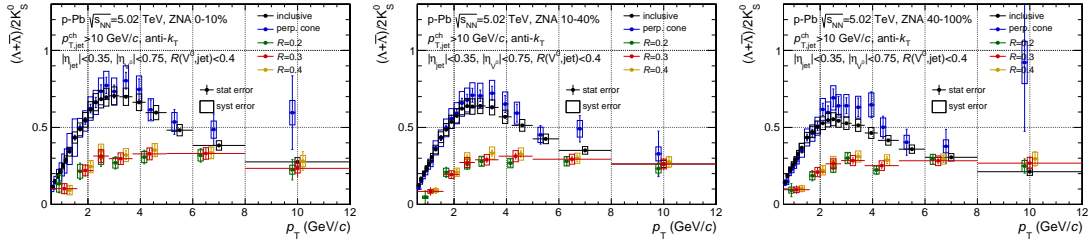


Figure 6:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 10$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.4$ . Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.



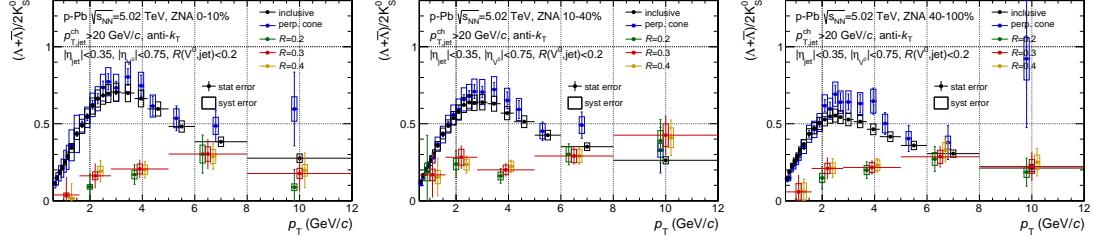


Figure 7:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 20$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.2$ . Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

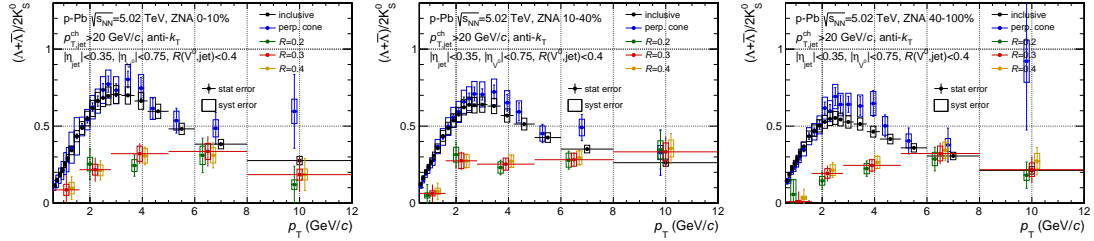


Figure 8:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  obtained in jets with three different jet resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and,  $p_{T,\text{jet}} > 20$  GeV/c. The  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.4$ . Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

## 1.2 $\Lambda$ -to- $K_S^0$ ratio in jets averaged over $R = 0.2, 0.3$ and $0.4$

### 1.2.1 V0A Event Activity Estimator

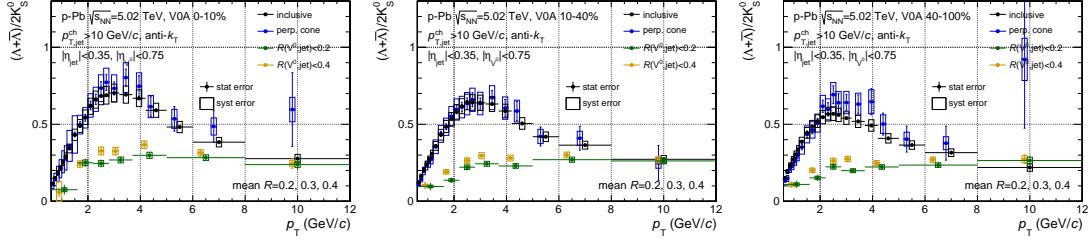


Figure 9:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,jet} > 10$  GeV/c. Two  $V^0$ -jet matching radii  $R(V^0,jet) < 0.2$  and  $0.4$  are used. Results are shown in three V0A event activity classes and compared with the inclusive and the underlying  $V^0$ s.

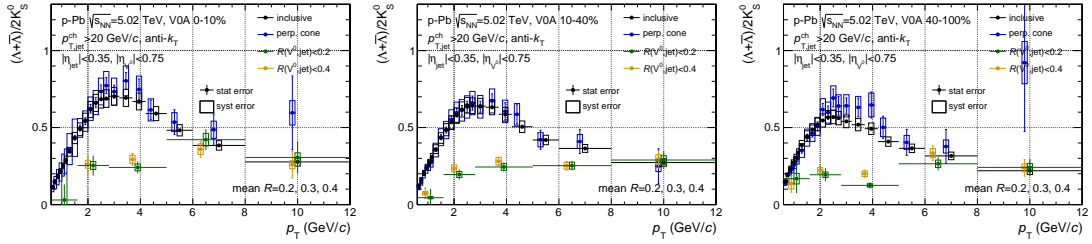


Figure 10:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,jet} > 20$  GeV/c. Two  $V^0$ -jet matching radii  $R(V^0,jet) < 0.2$  and  $0.4$  are used. Results are shown in three V0A event activity classes and compared with the inclusive and the underlying  $V^0$ s.

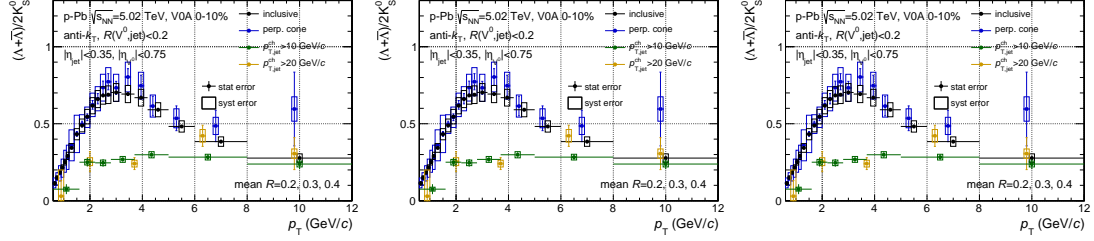


Figure 11:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,jet} > 10$  and  $> 20$  GeV/c, respectively.  $V^0$ -jet matching radius  $R(V^0, jet) < 0.2$ . Results are shown in three V0A event activity classes and compared with the inclusive and the underlying  $V^0$ s.

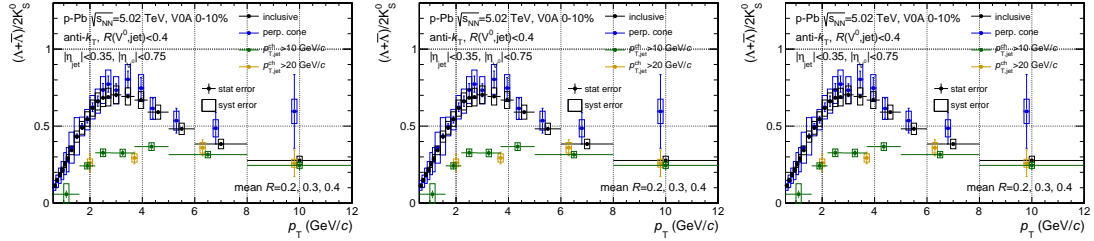


Figure 12:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,jet} > 10$  and  $> 20$  GeV/c, respectively.  $V^0$ -jet matching radius  $R(V^0, jet) < 0.4$ . Results are shown in three V0A event activity classes and compared with the inclusive and the underlying  $V^0$ s.

### 1.2.2 ZNA Event Activity Estimator

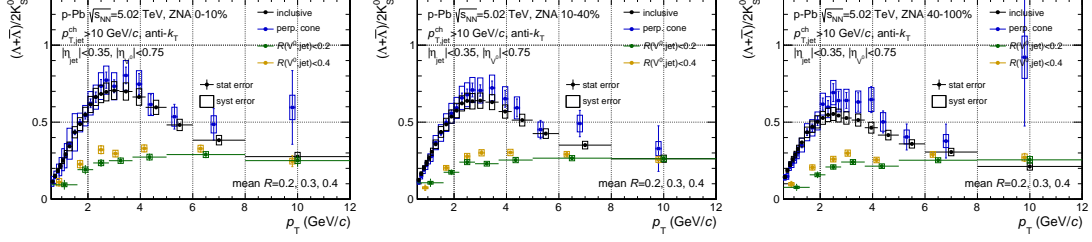


Figure 13:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,\text{jet}} > 10$  GeV/c. Two  $V^0$ -jet matching radii  $R(V^0, \text{jet}) < 0.2$  and  $0.4$  are used. Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

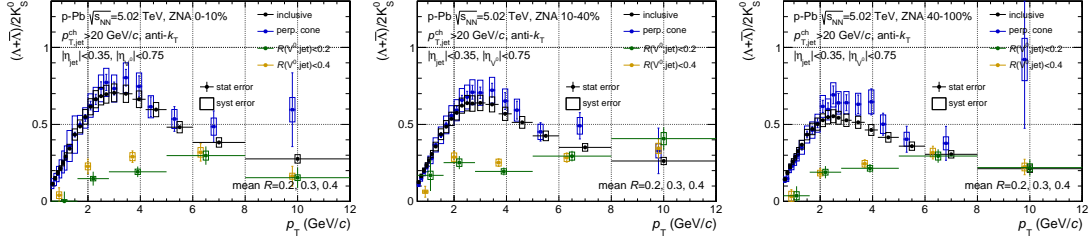


Figure 14:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,\text{jet}} > 20$  GeV/c. Two  $V^0$ -jet matching radii  $R(V^0, \text{jet}) < 0.2$  and  $0.4$  are used. Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

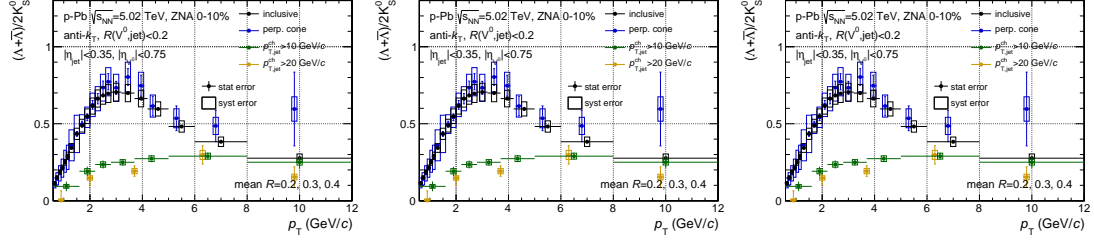


Figure 15:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,jet} > 10$  and  $> 20$  GeV/c, respectively.  $V^0$ -jet matching radius  $R(V^0,jet) < 0.2$ . Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

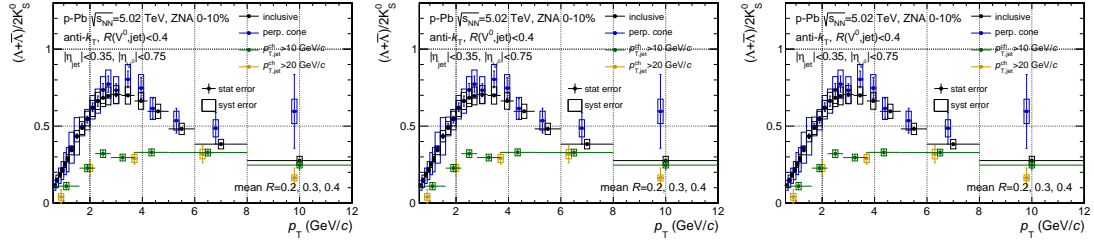


Figure 16:  $\Lambda$ -to- $K_S^0$  ratio as a function of  $p_T$  averaged over jets with  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,jet} > 10$  and  $> 20$  GeV/c, respectively.  $V^0$ -jet matching radius  $R(V^0,jet) < 0.4$ . Results are shown in three ZNA event activity classes and compared with the inclusive and the underlying  $V^0$ s.

## 2 $\Lambda$ -to- $K_S^0$ ratio as a function of matching radius

### 2.1 $V^0$ density as a function of matching radius

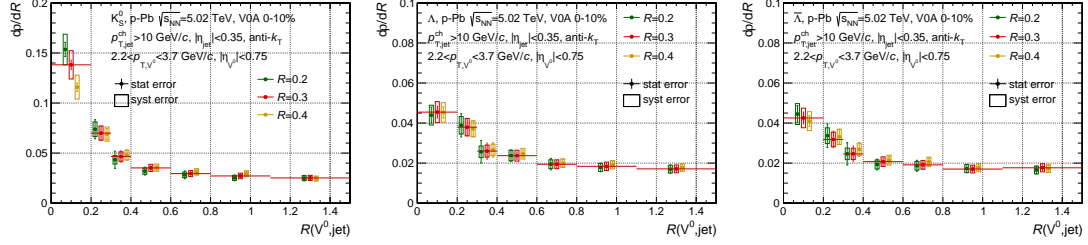


Figure 17:  $V^0$  density spectra as a function of matching radius  $R(V^0, \text{jet})$  in jets with resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and in  $p_{T, \text{jet}} > 10$  GeV/c.  $V^0$ s are obtained in  $2.2 < p_{T, V^0} < 3.7$  GeV/c,  $|\eta_{V^0}| < 0.75$ . Results are shown in 0 – 10% V0A event activity class. The underlying  $V^0$ s are not subtracted.

## 2.2 $\Lambda$ -to- $K_S^0$ ratio average over jets resolution parameters

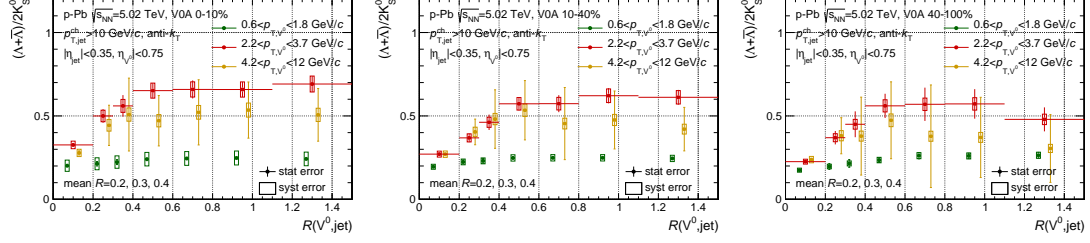


Figure 18:  $\Lambda$ -to- $K_S^0$  ratio as a function of matching radius  $R(V^0, \text{jet})$  in jets averaged over resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and in  $p_{T,\text{jet}} > 10$  GeV/c. Results are shown in three  $V^0$   $p_T$  regions and three V0A event activity classes. The underlying  $V^0$ s are not subtracted.

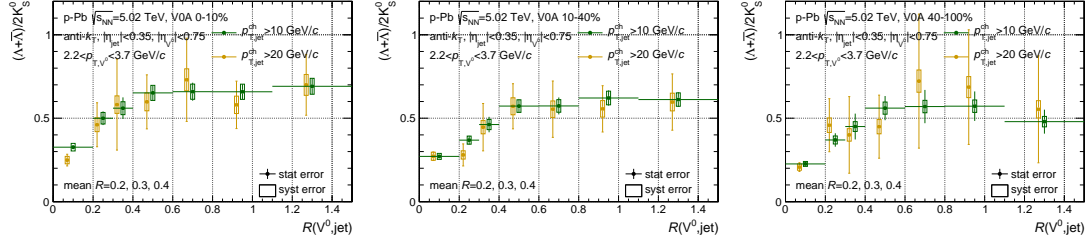


Figure 19:  $\Lambda$ -to- $K_S^0$  ratio as a function of matching radius  $R(V^0, \text{jet})$  in jets averaged over resolution parameters  $R = 0.2, 0.3$  and  $0.4$  and in  $p_{T,\text{jet}} > 10$  and  $20$  GeV/c, respectively. Results are shown in  $2.2 < p_T < 3.7$  GeV/c and three V0A event activity classes. The underlying  $V^0$ s are not subtracted.

### 3 Mean $p_T$ of $V^0$ s

#### 3.1 $V^0$ mean $p_T$ as a function of event multiplicity

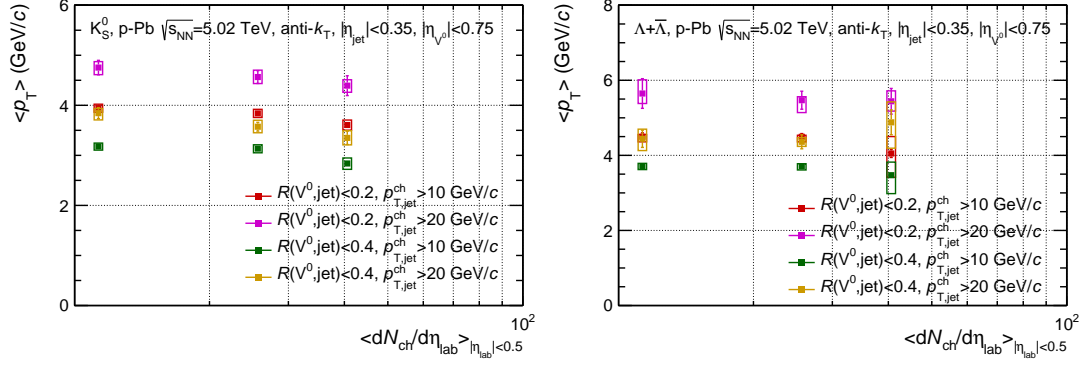


Figure 20: Mean  $p_T$  of  $V^0$ s in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in various matching radii and jet  $p_T$  regions.

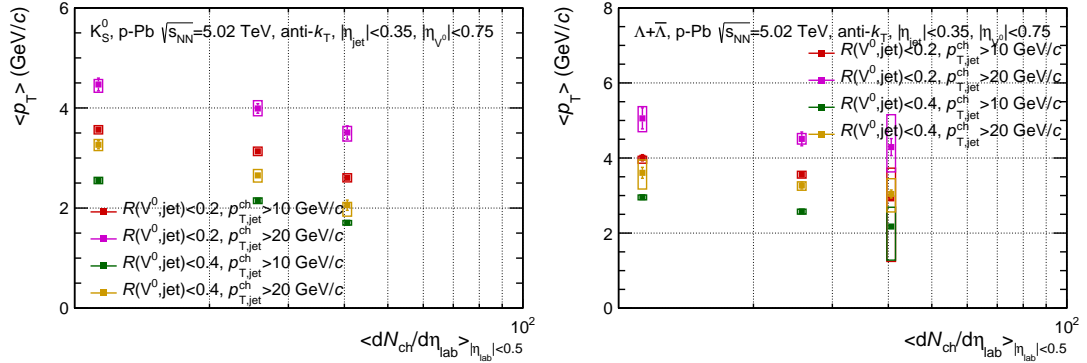


Figure 21: Mean  $p_T$  of  $V^0$ s in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in various matching radii and jet  $p_T$  regions. The underlying  $V^0$ s are not subtracted.



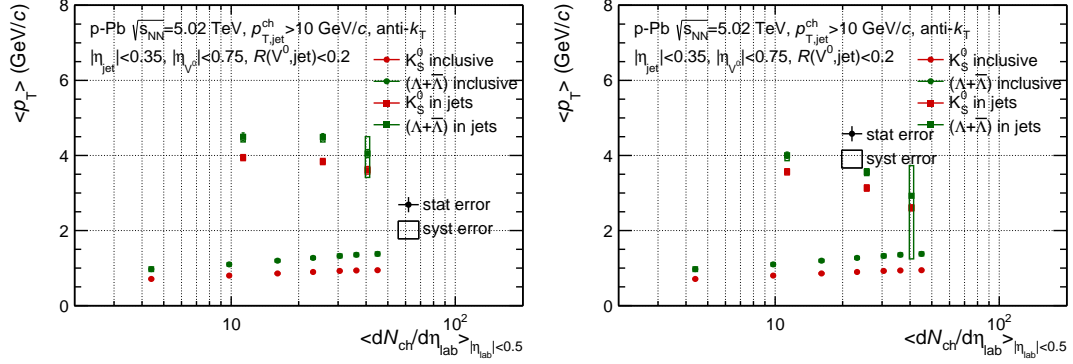


Figure 22: Mean  $p_T$  of  $V^0$ s in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  with  $V^0$ -jet matching radius  $R(V^0, \text{jet}) < 0.2$  and in  $p_{T, \text{jet}} > 10$  GeV/ $c$ . The results with and without the underlying  $V^0$  subtraction are shown in high and left, respectively.

### 3.2 $V^0$ mean $p_T$ as a function of matching radius

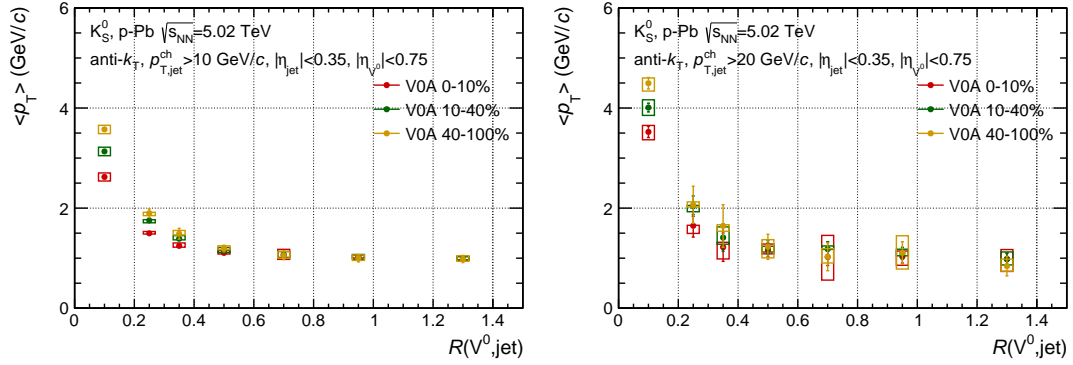


Figure 23: Mean  $p_T$  of  $K_S^0$  as a function of matched radius in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T, \text{jet}} > 10$  and  $20$  GeV/ $c$ . The underlying  $V^0$ s are not subtracted.

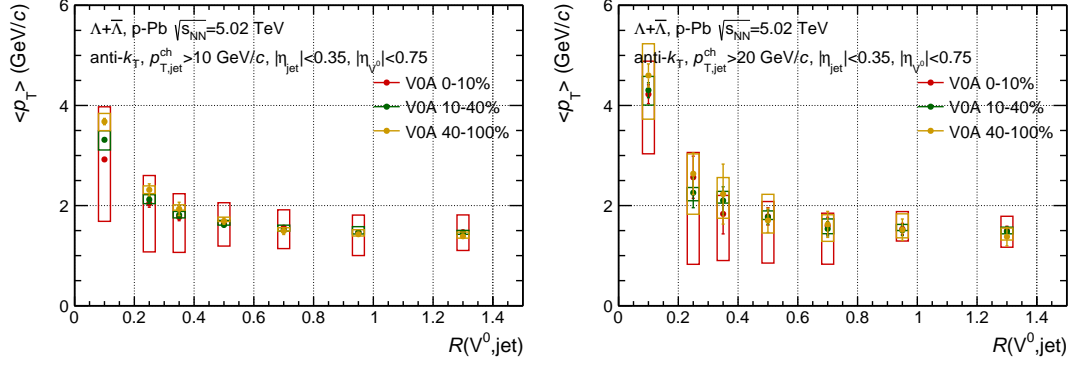


Figure 24: Mean  $p_T$  of  $\Lambda + \bar{\Lambda}$  as a function of matched radius in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,\text{jet}} > 10$  and  $20$  GeV/c. The underlying  $V^0$ s are not subtracted.

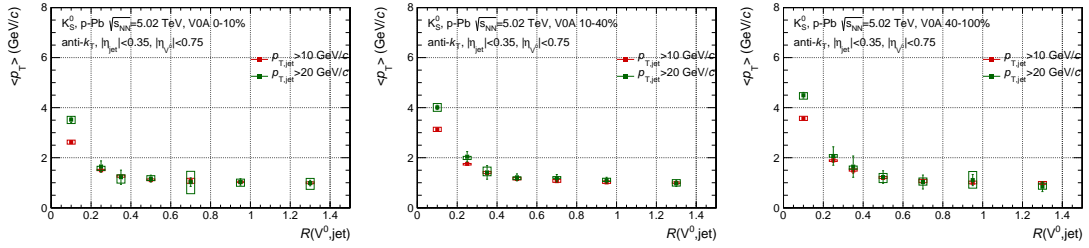


Figure 25: Mean  $p_T$  and  $K_S^0$  as a function of matched radius in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,\text{jet}} > 10$  GeV/c and  $20$  GeV/c. Results are shown in three V0A event activity classes. The underlying  $V^0$ s are not subtracted.

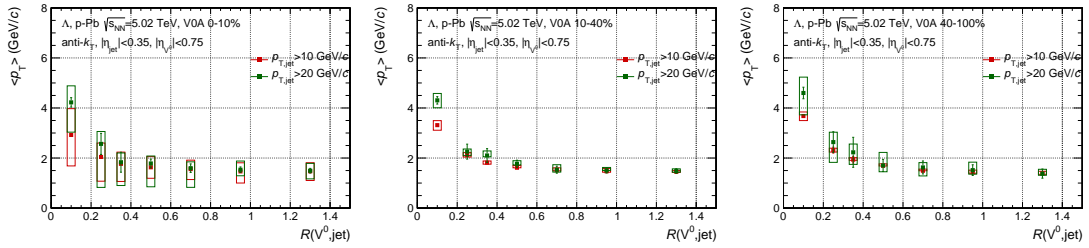


Figure 26: Mean  $p_T$  of  $\Lambda + \bar{\Lambda}$  as a function of matched radius in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T,\text{jet}} > 10$  and  $20$  GeV/c. Results are shown in three V0A event activity classes. The underlying  $V^0$ s are not subtracted.

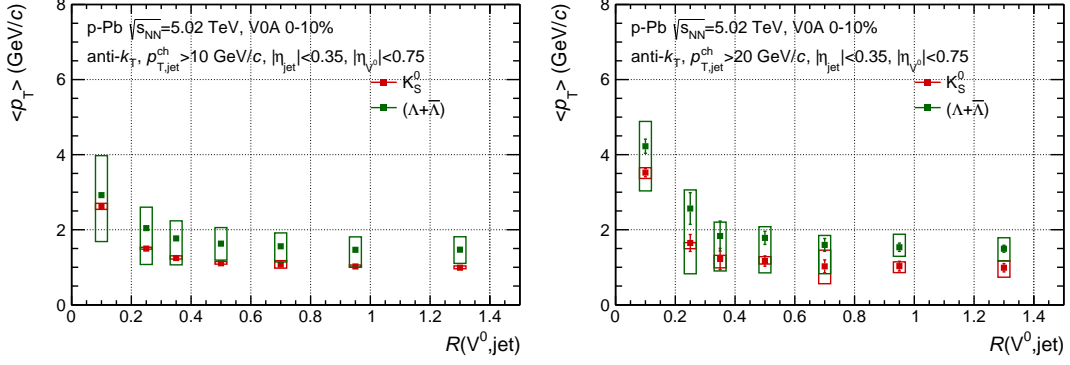


Figure 27: Mean  $p_T$  of  $V^0$ s as a function of matched radius in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T, \text{jet}} > 10 \text{ GeV}/c$ . The underlying  $V^0$ s are not subtracted.

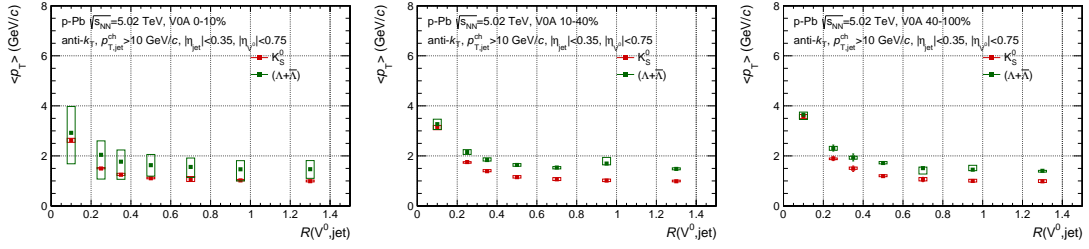


Figure 28: Mean  $p_T$  of  $V^0$ s as a function of matched radius in jets averaged over resolution parameter  $R = 0.2, 0.3$  and  $0.4$  in  $p_{T, \text{jet}} > 10 \text{ GeV}/c$ . Results are shown in three V0A event activity classes. The underlying  $V^0$ s are not subtracted.