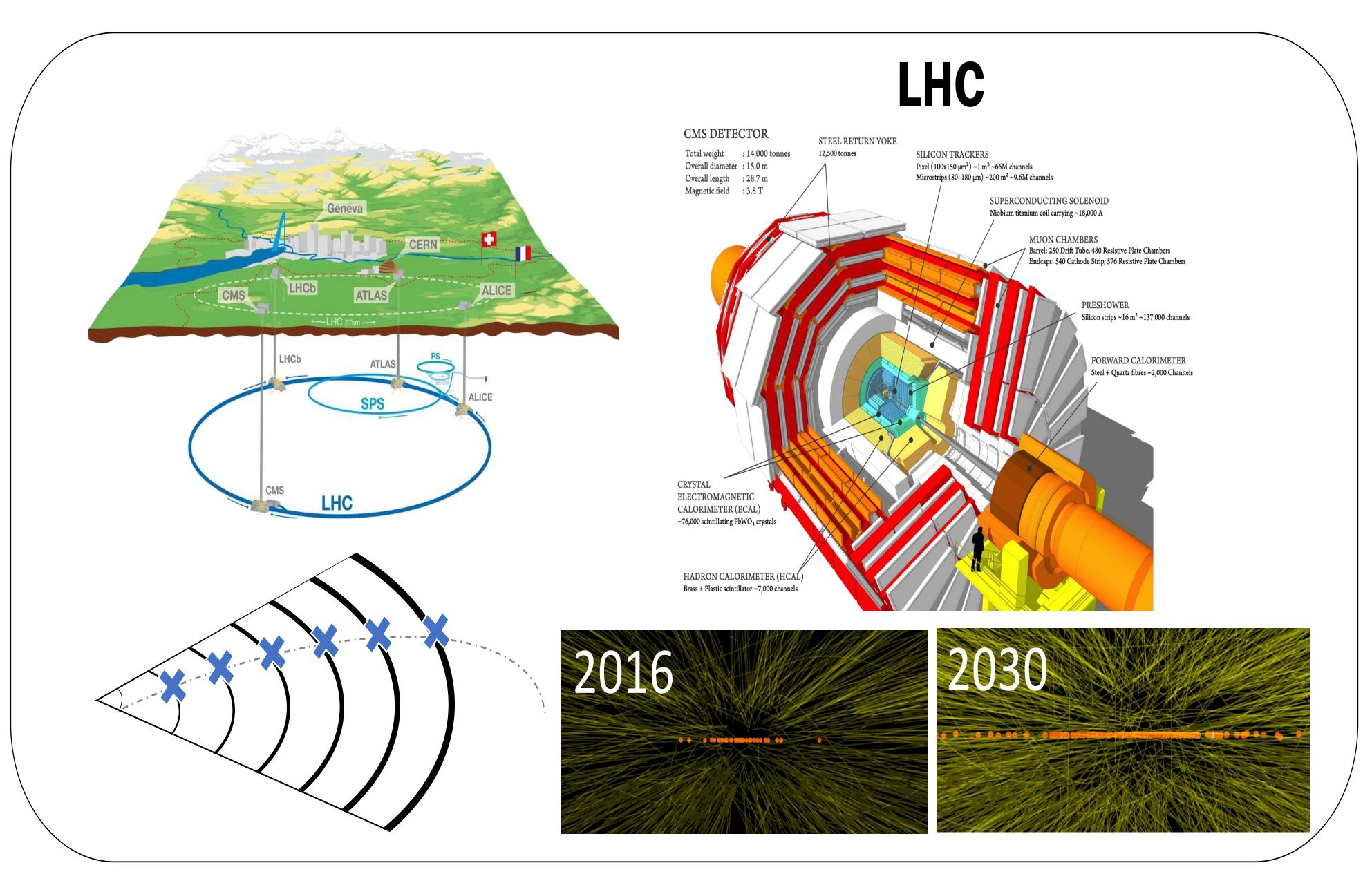
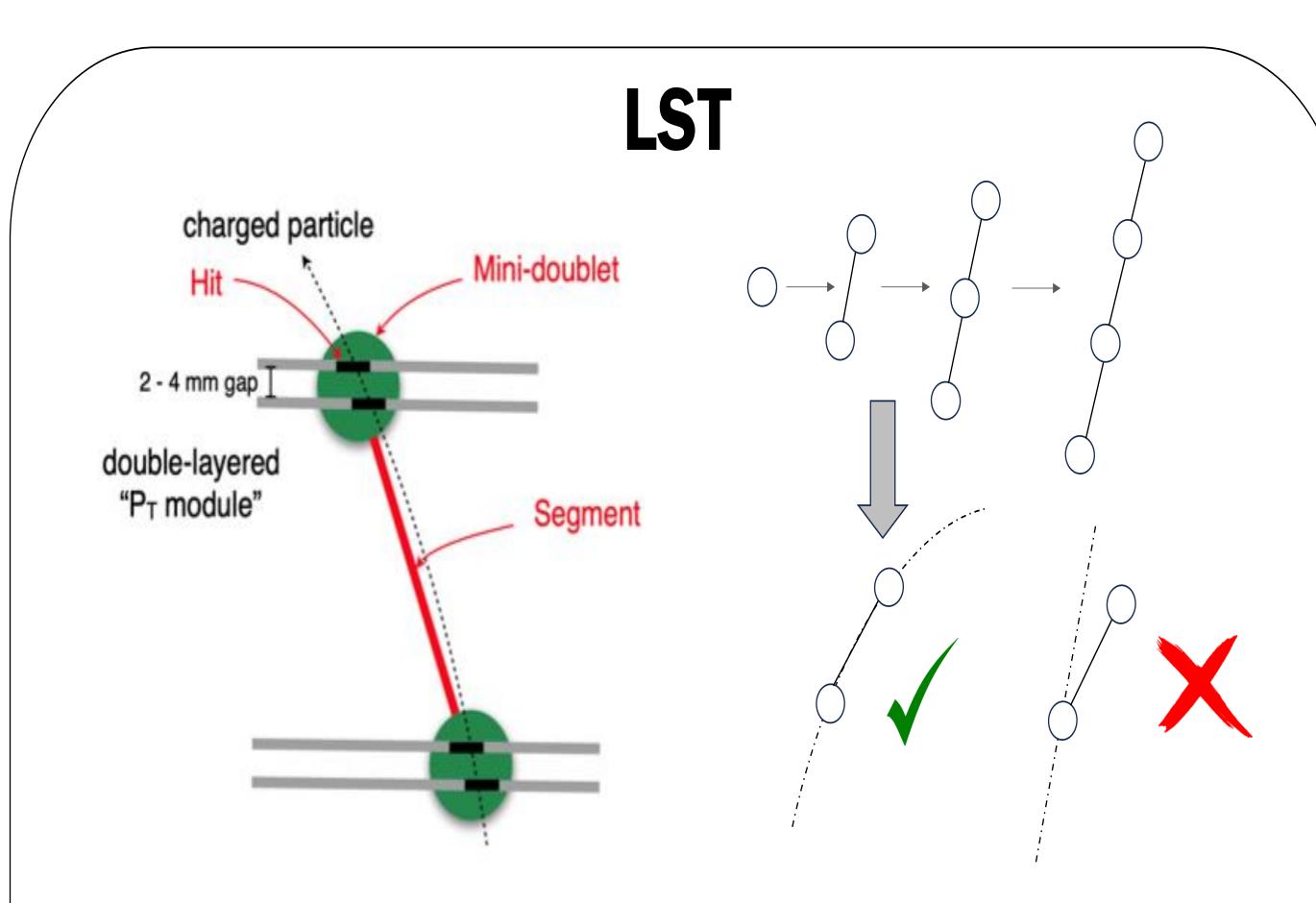
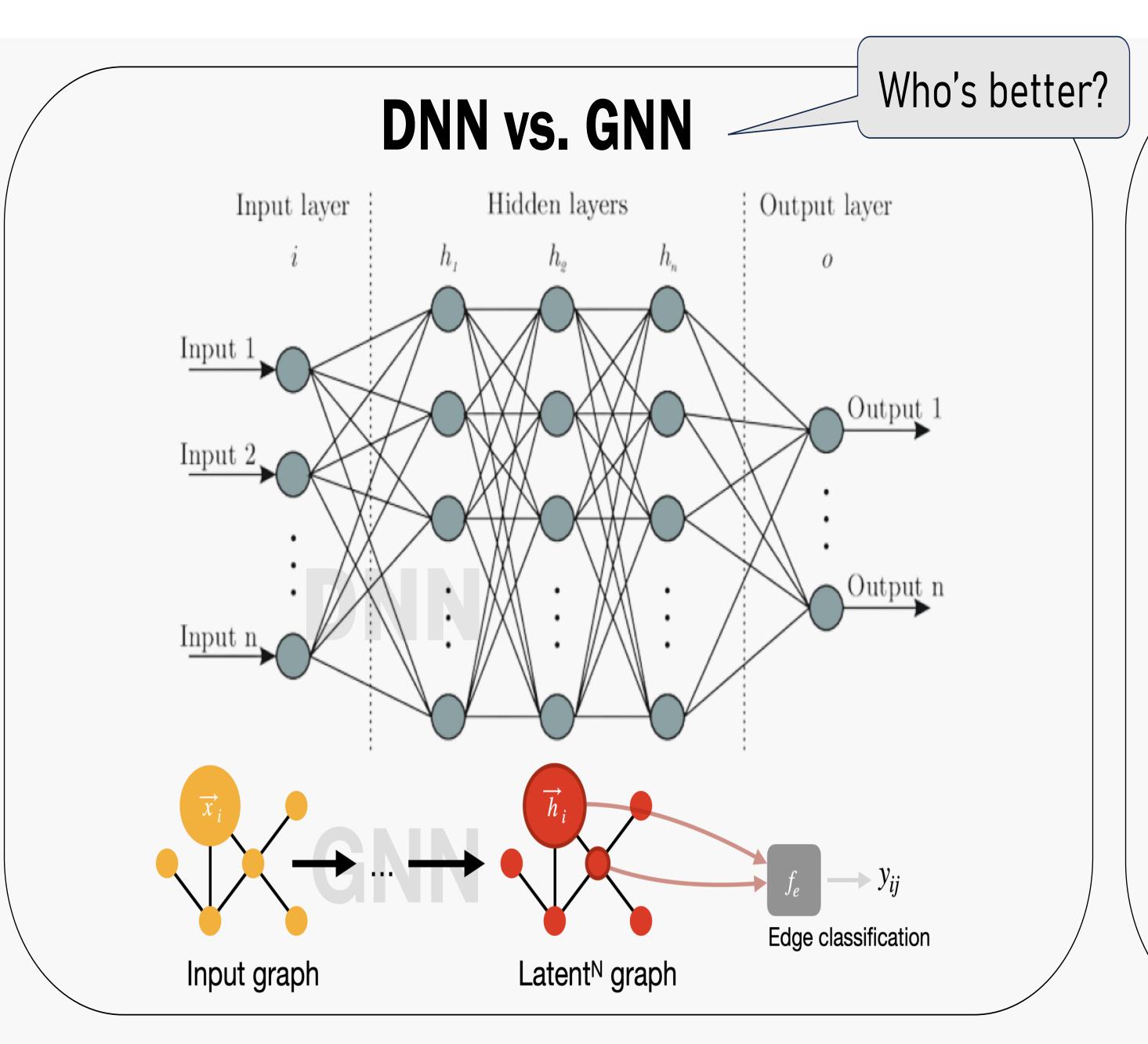
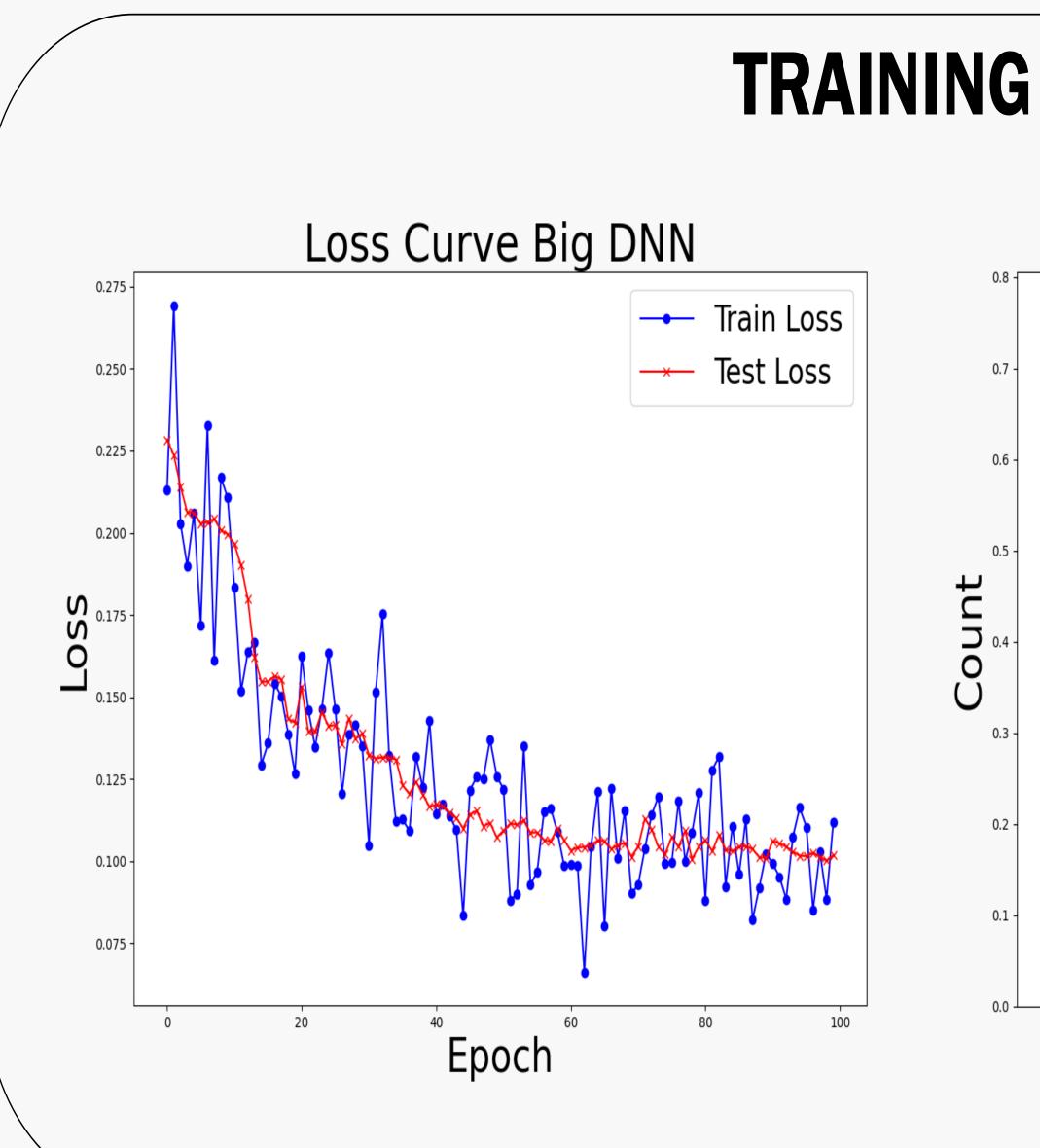
## Using ML for LHC Particle Tracking

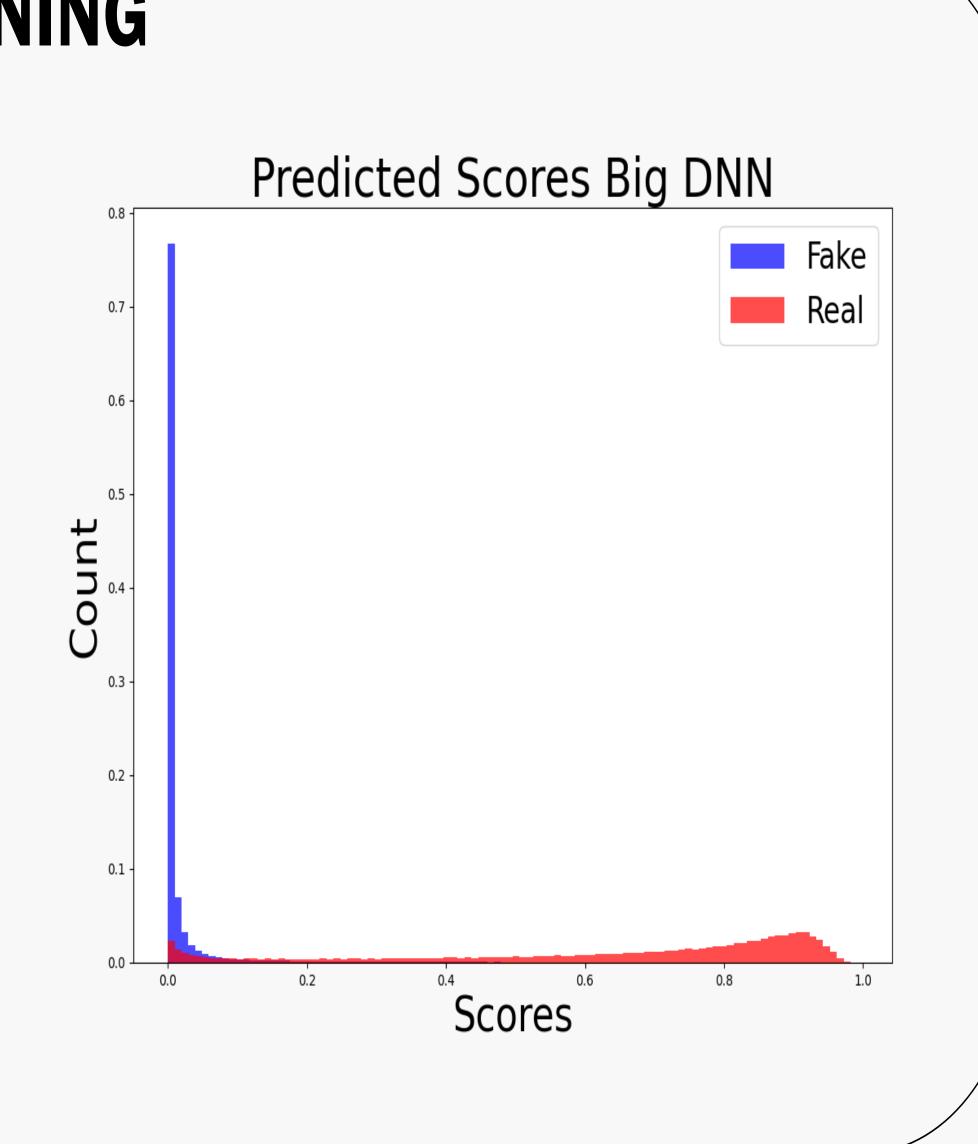


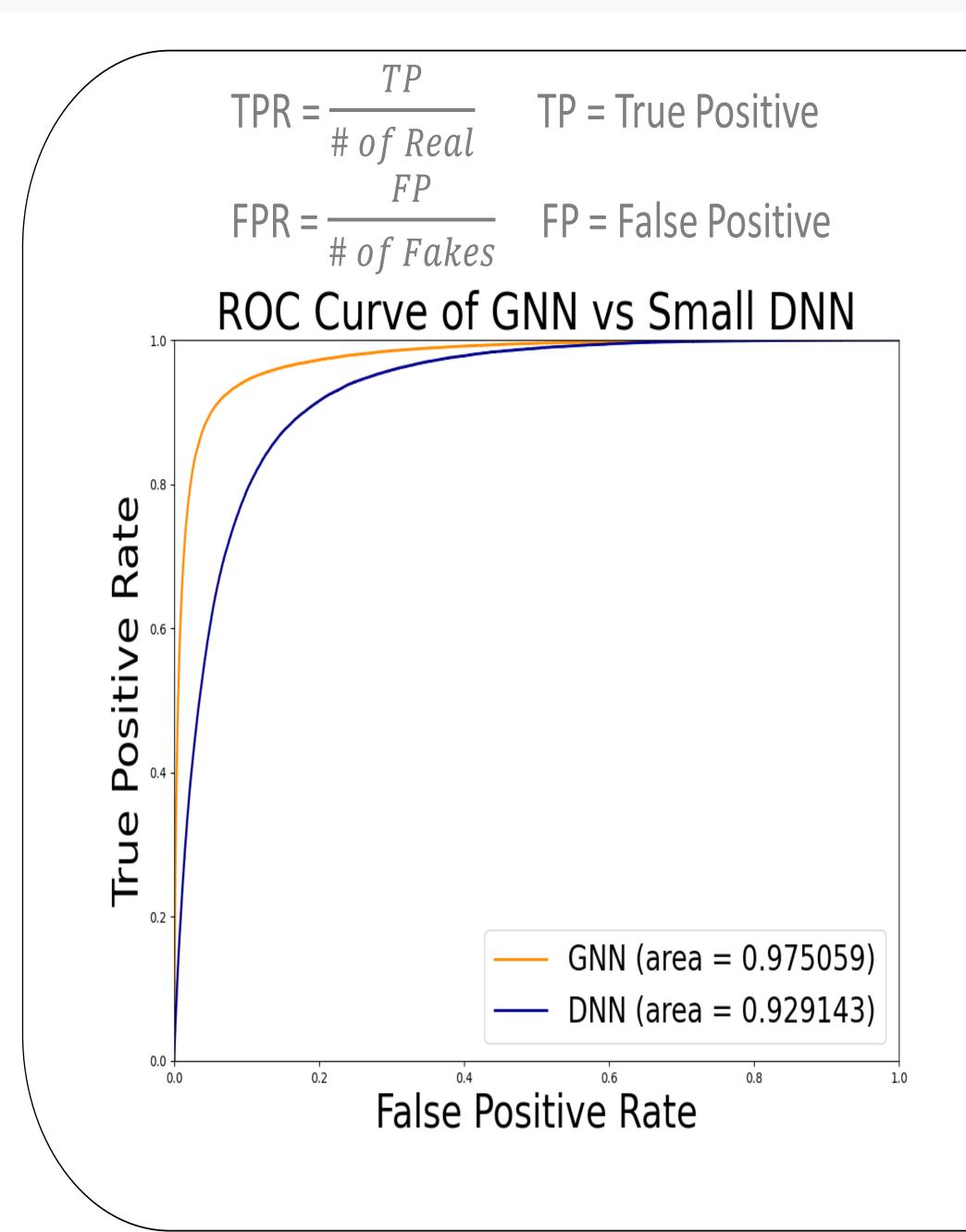


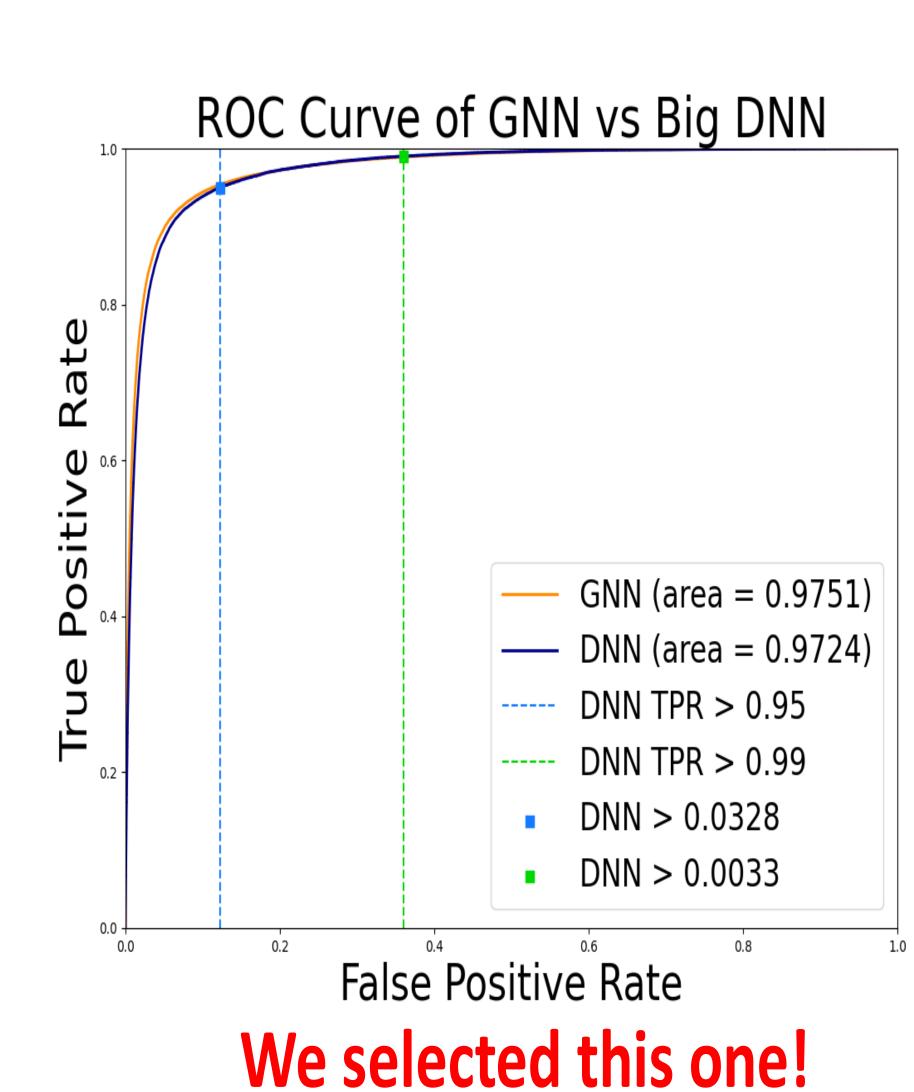
- Reconstructs particle tracks
- Captures valuable information of the particle collision
- DNN focuses on higher-level patterns and relationships, leading to more efficient training and better performance.











CONCLUSION

X = 0.0328 $Y = 0.0385$			
	DNN>X	GNN>Y	Both
Real & Fake	134876	128475	106670
Real	49628	49628	48966
Fake	85248	78847	57704
X = 0.0033 $Y = 0.0045$			
	DNN>X	GNN>Y	Both
Real & Fake	302497	313556	245207

51716

250781

51717

261839

Real

Fake

51446

193761