

1. Introduction to ROOT analysis tools
2. Histograms, Graph, TTree
3. Generation and reconstruction of HEP events strong into the TTree
4. Calculating moments, generating correlated variables,
5. Linear Fit, Likelihood method to select signal events,
6. Log Likelihood method significance & Confidence interval
7. Neural Network basics and multilayer perception
8. MVA overview and examples of projective likelihood estimator
9. Boosted decision tree (MVA)