

Multivariate Analyses

Section Editors

BaBar: José Ocariz

Belle: Hidekazu Kakuno

Theory: No name required

Physics of B-factories Book Meeting
KEK, MAy 17-18

Overall Content

- A first overall section, called “Multivariate techniques” (XXX pages)
 - General description of MVA techniques and analysis optimisation
 - Survey of techniques (linear, non-linear, decision trees, etc...
 - Fixes overall notations
 - Survey of various optimisation criteria
 - Survey of available tools (TMVA, StatPatternRecognition, other)
 - Frank Porter section editor, Ilya Narski volunteered
- Three sections with dedicated descriptions of MVA-related techniques and tools
 - Tagging (xxx pages)
 - Joerg Beringer editor
 - PID (?) (xxx pages)
 - Background Suppression (xxx pages)
 - Kinematical discrimination
 - Topological discrimination
 - Data-driven validations & estimation of systematics
 - Several names : A. Bevan, H. Kakuno, J. Malclès, J.Ocariz
- Bruce’s agenda mentions a fourth section “analysis optimisation”
 - Not necessary in this scheme ?