Things I'd like to do next - 1

- Introduce kd-trees to improve
 - Range searches in TTrees
 - Nearest neighbor searches in TTrees
- kd-tree takes
 - O(k*n*log(n)) time and O(k*n) storage, where n is the number of entries and k the number of dimensions
- k-dim range query then takes
 - O((n^{1-1/k} + n_o)), where n_o is the number of entries in the range

Things I'd like to do next - 2

- Loess locally weighted polynomial regression
 - Already half-done
 - Fitting curves and surfaces by smoothing
 - Combines simplicity of linear least-squares with flexibility of non-linear models
 - Robust against outliers
 - No analytical fit function necessary

Things I'd like to see happen

- Consolidation of math libraries:
 - No code duplication between TMath and Mathcore
 - TF1 using new math classes
- More analysis methods coming from experiments (like TMVA), in particular, a confidence limits framework.
- Bitmap indices and unification of all treeindexing classes