Notes on the FSRoot Package

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Abstract

FSRoot is a set of utilities to help manipulate information about different Final States (FS) produced in particle physics experiments. The utilities are built around the CERN ROOT framework. This document provides an introduction to FSRoot.

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1 Overview of FSRoot

This is an overview of FSRoot.

2 Download and Setup

There are three initial steps:

(1) The macros can be downloaded from the git repository. This command will download the macros into a directory called FSRoot:

```
> git clone <user>@stanley.physics.indiana.edu:/home/s4/remitche/git/RootMacros.git
```

(2) The $ROOTMACROS environment variable needs to be set to point to the FSRoot directory. For example, in tcsh (usually using the .tcshrc file):

```
> setenv ROOTMACROS <RootMacros directory>
```

(3) The following lines need to be added to a file called `.rootrc` (usually in your home directory):

```
Unix.*.Root.DynamicPath: .:$(ROOTMACROS):$(ROOTSYS)/lib:
Unix.*.Root.MacroPath:   .:$(ROOTMACROS):
```

3 Getting Updates

To get updates, do this from the `$ROOTMACROS` directory:

```
> git pull
```