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#include <iostream>

void bkg_Mbc() {

    TChain chain1("B_tree");
    std::string file_1 = "/home/belle2/hyuna/Signal.root";
    chain1.Add(file_1.c_str());

    TH1F* hist1 = new TH1F("signal","signal",200,5.2,5.29);
    hist1->SetLineStyle(1);
    hist1->SetLineWidth(2);
    hist1->SetLineColor(2);

    TChain chain2("B_tree");
    std::string file_2 = "/home/belle2/hyuna/test_job6/charged.root";
    chain2.Add(file_2.c_str());

    TH1F* hist2 = new TH1F("charged","charged",200,5.2,5.29);
    hist2->SetLineStyle(1);
    hist2->SetLineWidth(2);
    hist2->SetLineColor(41);
    hist2->SetFillColor(41);

    TChain chain3("B_tree");
    std::string file_3 = "/home/belle2/hyuna/test_job7/mixed.root";
    chain3.Add(file_3.c_str());

    TH1F* hist3 = new TH1F("mixed","mixed",200,5.2,5.29);
    hist3->SetLineStyle(1);
    hist3->SetLineWidth(2);
    hist3->SetLineColor(46);
    hist3->SetFillColor(46);

    TChain chain4("B_tree");
    std::string file_4 = "/home/belle2/hyuna/test_job8/ccbar.root";
    chain4.Add(file_4.c_str());

    TH1F* hist4 = new TH1F("ccbar","ccbar",200,5.2,5.29);
    hist4->SetLineStyle(1);
    hist4->SetLineWidth(2);
    hist4->SetLineColor(29);
    hist4->SetFillColor(29);

    TChain chain5("B_tree");
    std::string file_5 = "/home/belle2/hyuna/test_job9/uubar.root";
    chain5.Add(file_5.c_str());

    TH1F* hist5 = new TH1F("uubar","uubar",200,5.2,5.29);
    hist5->SetLineStyle(1);
    hist5->SetLineWidth(2);
    hist5->SetLineColor(24);
    hist5->SetFillColor(24);

    TChain chain6("B_tree");

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std::string file_6 = "/home/belle2/hyuna/test_job10/ddbar.root";
chain6.Add(file_6.c_str());

TH1F* hist6 = new TH1F("ddbar","ddbar",200,5.2,5.29);
hist6->SetLineStyle(1);
hist6->SetLineWidth(2);
hist6->SetLineColor(48);
hist6->SetFillColor(48);

TChain chain7("B_tree");
std::string file_7 = "/home/belle2/hyuna/test_job11/ssbar.root";
chain7.Add(file_7.c_str());

TH1F* hist7 = new TH1F("ssbar","ssbar",200,5.2,5.29);
hist7->SetLineStyle(1);
hist7->SetLineWidth(2);
hist7->SetLineColor(16);
hist7->SetFillColor(16);

THStack *hs1 = new THStack("BtoK+gg"," BtoK+gg");
chain1.Draw("Mbc >> signal", "");
chain2.Draw("Mbc >> charged", "(387.1*10^6/
((1.8*10^5)*(1+(0.5346/0.5654))))");
chain3.Draw("Mbc >> mixed", "(387.1*10^6/
((1.8*10^5)*(1+(0.5346/0.5654)))*(0.5346/0.5654)");
chain4.Draw("Mbc >> ccbar", "(387.1*10^6/
((1.8*10^5)*(1+(0.5346/0.5654)))*(1.329/0.5654)");
chain5.Draw("Mbc >> uubar", "(387.1*10^6/
((1.8*10^5)*(1+(0.5346/0.5654)))*(1.605/0.5654)");
chain6.Draw("Mbc >> ddbar", "(387.1*10^6/
((1.8*10^5)*(1+(0.5346/0.5654)))*(0.401/0.5654)");
chain7.Draw("Mbc >> ssbar", "(387.1*10^6/
((1.8*10^5)*(1+(0.5346/0.5654)))*(0.383/0.5654)");

std::cout << chain2.GetEntries() << std::endl;
std::cout << chain3.GetEntries() << std::endl;
std::cout << chain4.GetEntries() << std::endl;
std::cout << chain5.GetEntries() << std::endl;
std::cout << chain6.GetEntries() << std::endl;
std::cout << chain7.GetEntries() << std::endl;

// hs1->Add(hist1);
hs1->Add(hist2);
hs1->Add(hist3);
hs1->Add(hist4);
hs1->Add(hist5);
hs1->Add(hist6);
hs1->Add(hist7);

TCanvas * c1 = new TCanvas();

c1 -> cd();
hs1->Draw("hist");
hist1->Draw("same");

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TLegend* legend = gPad->BuildLegend(0.1,0.7,0.3,0.9);  
c1 -> SaveAs("signal+bkg_Mbc.png");  
}
```