

```

void AAr_f90_S1_wAcc_pub2015()
{
//=====Macro generated from canvas: c_stat_dms_pl/
//===== (Thu May 21 09:50:51 2020) by ROOT version6.06/04
    TCanvas *c_stat_dms_pl = new TCanvas("c_stat_dms_pl", "",
0,22,800,475);
    c_stat_dms_pl->SetHighLightColor(2);
    c_stat_dms_pl->Range(-10.27027,-0.125,530.2703,1.125);
    c_stat_dms_pl->SetFillColor(0);
    c_stat_dms_pl->SetBorderMode(0);
    c_stat_dms_pl->SetBorderSize(2);
    c_stat_dms_pl->SetGridx();
    c_stat_dms_pl->SetGridy();
    c_stat_dms_pl->SetLeftMargin(0.13);
    c_stat_dms_pl->SetRightMargin(0.13);
    c_stat_dms_pl->SetFrameBorderMode(0);
    c_stat_dms_pl->SetFrameBorderMode(0);

    TH2F *hDMPl = new TH2F("hDMPl", "", 80,60,460,100,0,1);
    hDMPl->SetBinContent(88,1);
    hDMPl->SetBinContent(94,1);
    hDMPl->SetBinContent(139,1);
    hDMPl->SetBinContent(169,1);
    hDMPl->SetBinContent(171,1);
    hDMPl->SetBinContent(174,2);
    hDMPl->SetBinContent(176,1);
    hDMPl->SetBinContent(178,1);
    hDMPl->SetBinContent(179,1);
    hDMPl->SetBinContent(182,1);
    hDMPl->SetBinContent(183,1);
    hDMPl->SetBinContent(184,1);
    hDMPl->SetBinContent(186,1);
    hDMPl->SetBinContent(188,1);
    hDMPl->SetBinContent(189,1);
    hDMPl->SetBinContent(194,2);
    hDMPl->SetBinContent(217,1);
    hDMPl->SetBinContent(220,1);
    hDMPl->SetBinContent(222,1);
    hDMPl->SetBinContent(242,1);
    hDMPl->SetBinContent(247,2);
    hDMPl->SetBinContent(248,1);
    hDMPl->SetBinContent(249,4);
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    hDMPl->SetBinContent(251,1);
    hDMPl->SetBinContent(253,4);
    hDMPl->SetBinContent(254,1);
    hDMPl->SetBinContent(256,1);
    hDMPl->SetBinContent(257,2);
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    hDMPl->SetBinContent(259,2);
    hDMPl->SetBinContent(260,3);
    hDMPl->SetBinContent(261,1);
    hDMPl->SetBinContent(262,1);
    hDMPl->SetBinContent(266,1);

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hDMP1->SetContourLevel(5,741.1176);
hDMP1->SetContourLevel(6,889.3412);
hDMP1->SetContourLevel(7,1037.565);
hDMP1->SetContourLevel(8,1185.788);
hDMP1->SetContourLevel(9,1334.012);
hDMP1->SetContourLevel(10,1482.235);
hDMP1->SetContourLevel(11,1630.459);
hDMP1->SetContourLevel(12,1778.682);
hDMP1->SetContourLevel(13,1926.906);
hDMP1->SetContourLevel(14,2075.129);
hDMP1->SetContourLevel(15,2223.353);
hDMP1->SetContourLevel(16,2371.576);
hDMP1->SetContourLevel(17,2519.8);
hDMP1->SetContourLevel(18,2668.024);
hDMP1->SetContourLevel(19,2816.247);
hDMP1->SetContourLevel(20,2964.471);
hDMP1->SetContourLevel(21,3112.694);
hDMP1->SetContourLevel(22,3260.918);
hDMP1->SetContourLevel(23,3409.141);
hDMP1->SetContourLevel(24,3557.365);
hDMP1->SetContourLevel(25,3705.588);
hDMP1->SetContourLevel(26,3853.812);
hDMP1->SetContourLevel(27,4002.035);
```

```
hDMP1->SetContourLevel(28,4150.259);
hDMP1->SetContourLevel(29,4298.482);
hDMP1->SetContourLevel(30,4446.706);
hDMP1->SetContourLevel(31,4594.929);
hDMP1->SetContourLevel(32,4743.153);
hDMP1->SetContourLevel(33,4891.376);
hDMP1->SetContourLevel(34,5039.6);
hDMP1->SetContourLevel(35,5187.824);
hDMP1->SetContourLevel(36,5336.047);
hDMP1->SetContourLevel(37,5484.271);
hDMP1->SetContourLevel(38,5632.494);
hDMP1->SetContourLevel(39,5780.718);
hDMP1->SetContourLevel(40,5928.941);
hDMP1->SetContourLevel(41,6077.165);
hDMP1->SetContourLevel(42,6225.388);
hDMP1->SetContourLevel(43,6373.612);
hDMP1->SetContourLevel(44,6521.835);
hDMP1->SetContourLevel(45,6670.059);
hDMP1->SetContourLevel(46,6818.282);
hDMP1->SetContourLevel(47,6966.506);
hDMP1->SetContourLevel(48,7114.729);
hDMP1->SetContourLevel(49,7262.953);
hDMP1->SetContourLevel(50,7411.176);
hDMP1->SetContourLevel(51,7559.4);
hDMP1->SetContourLevel(52,7707.624);
hDMP1->SetContourLevel(53,7855.847);
hDMP1->SetContourLevel(54,8004.071);
hDMP1->SetContourLevel(55,8152.294);
hDMP1->SetContourLevel(56,8300.518);
hDMP1->SetContourLevel(57,8448.741);
hDMP1->SetContourLevel(58,8596.965);
hDMP1->SetContourLevel(59,8745.188);
hDMP1->SetContourLevel(60,8893.412);
hDMP1->SetContourLevel(61,9041.635);
hDMP1->SetContourLevel(62,9189.859);
hDMP1->SetContourLevel(63,9338.082);
hDMP1->SetContourLevel(64,9486.306);
hDMP1->SetContourLevel(65,9634.529);
hDMP1->SetContourLevel(66,9782.753);
hDMP1->SetContourLevel(67,9930.976);
hDMP1->SetContourLevel(68,10079.2);
hDMP1->SetContourLevel(69,10227.42);
hDMP1->SetContourLevel(70,10375.65);
hDMP1->SetContourLevel(71,10523.87);
hDMP1->SetContourLevel(72,10672.09);
hDMP1->SetContourLevel(73,10820.32);
hDMP1->SetContourLevel(74,10968.54);
hDMP1->SetContourLevel(75,11116.76);
hDMP1->SetContourLevel(76,11264.99);
hDMP1->SetContourLevel(77,11413.21);
hDMP1->SetContourLevel(78,11561.44);
hDMP1->SetContourLevel(79,11709.66);
hDMP1->SetContourLevel(80,11857.88);
hDMP1->SetContourLevel(81,12006.11);
```



```
hDMP1->SetContourLevel(82,12154.33);
hDMP1->SetContourLevel(83,12302.55);
hDMP1->SetContourLevel(84,12450.78);
hDMP1->SetContourLevel(85,12599);
hDMP1->SetContourLevel(86,12747.22);
hDMP1->SetContourLevel(87,12895.45);
hDMP1->SetContourLevel(88,13043.67);
hDMP1->SetContourLevel(89,13191.89);
hDMP1->SetContourLevel(90,13340.12);
hDMP1->SetContourLevel(91,13488.34);
hDMP1->SetContourLevel(92,13636.56);
hDMP1->SetContourLevel(93,13784.79);
hDMP1->SetContourLevel(94,13933.01);
hDMP1->SetContourLevel(95,14081.24);
hDMP1->SetContourLevel(96,14229.46);
hDMP1->SetContourLevel(97,14377.68);
hDMP1->SetContourLevel(98,14525.91);
hDMP1->SetContourLevel(99,14674.13);
hDMP1->SetContourLevel(100,14822.35);
hDMP1->SetContourLevel(101,14970.58);
hDMP1->SetContourLevel(102,15118.8);
hDMP1->SetContourLevel(103,15267.02);
hDMP1->SetContourLevel(104,15415.25);
hDMP1->SetContourLevel(105,15563.47);
hDMP1->SetContourLevel(106,15711.69);
hDMP1->SetContourLevel(107,15859.92);
hDMP1->SetContourLevel(108,16008.14);
hDMP1->SetContourLevel(109,16156.36);
hDMP1->SetContourLevel(110,16304.59);
hDMP1->SetContourLevel(111,16452.81);
hDMP1->SetContourLevel(112,16601.04);
hDMP1->SetContourLevel(113,16749.26);
hDMP1->SetContourLevel(114,16897.48);
hDMP1->SetContourLevel(115,17045.71);
hDMP1->SetContourLevel(116,17193.93);
hDMP1->SetContourLevel(117,17342.15);
hDMP1->SetContourLevel(118,17490.38);
hDMP1->SetContourLevel(119,17638.6);
hDMP1->SetContourLevel(120,17786.82);
hDMP1->SetContourLevel(121,17935.05);
hDMP1->SetContourLevel(122,18083.27);
hDMP1->SetContourLevel(123,18231.49);
hDMP1->SetContourLevel(124,18379.72);
hDMP1->SetContourLevel(125,18527.94);
hDMP1->SetContourLevel(126,18676.16);
hDMP1->SetContourLevel(127,18824.39);
hDMP1->SetContourLevel(128,18972.61);
hDMP1->SetContourLevel(129,19120.84);
hDMP1->SetContourLevel(130,19269.06);
hDMP1->SetContourLevel(131,19417.28);
hDMP1->SetContourLevel(132,19565.51);
hDMP1->SetContourLevel(133,19713.73);
hDMP1->SetContourLevel(134,19861.95);
hDMP1->SetContourLevel(135,20010.18);
```

```
hDMP1->SetContourLevel(136,20158.4);
hDMP1->SetContourLevel(137,20306.62);
hDMP1->SetContourLevel(138,20454.85);
hDMP1->SetContourLevel(139,20603.07);
hDMP1->SetContourLevel(140,20751.29);
hDMP1->SetContourLevel(141,20899.52);
hDMP1->SetContourLevel(142,21047.74);
hDMP1->SetContourLevel(143,21195.96);
hDMP1->SetContourLevel(144,21344.19);
hDMP1->SetContourLevel(145,21492.41);
hDMP1->SetContourLevel(146,21640.64);
hDMP1->SetContourLevel(147,21788.86);
hDMP1->SetContourLevel(148,21937.08);
hDMP1->SetContourLevel(149,22085.31);
hDMP1->SetContourLevel(150,22233.53);
hDMP1->SetContourLevel(151,22381.75);
hDMP1->SetContourLevel(152,22529.98);
hDMP1->SetContourLevel(153,22678.2);
hDMP1->SetContourLevel(154,22826.42);
hDMP1->SetContourLevel(155,22974.65);
hDMP1->SetContourLevel(156,23122.87);
hDMP1->SetContourLevel(157,23271.09);
hDMP1->SetContourLevel(158,23419.32);
hDMP1->SetContourLevel(159,23567.54);
hDMP1->SetContourLevel(160,23715.76);
hDMP1->SetContourLevel(161,23863.99);
hDMP1->SetContourLevel(162,24012.21);
hDMP1->SetContourLevel(163,24160.44);
hDMP1->SetContourLevel(164,24308.66);
hDMP1->SetContourLevel(165,24456.88);
hDMP1->SetContourLevel(166,24605.11);
hDMP1->SetContourLevel(167,24753.33);
hDMP1->SetContourLevel(168,24901.55);
hDMP1->SetContourLevel(169,25049.78);
hDMP1->SetContourLevel(170,25198);
hDMP1->SetContourLevel(171,25346.22);
hDMP1->SetContourLevel(172,25494.45);
hDMP1->SetContourLevel(173,25642.67);
hDMP1->SetContourLevel(174,25790.89);
hDMP1->SetContourLevel(175,25939.12);
hDMP1->SetContourLevel(176,26087.34);
hDMP1->SetContourLevel(177,26235.56);
hDMP1->SetContourLevel(178,26383.79);
hDMP1->SetContourLevel(179,26532.01);
hDMP1->SetContourLevel(180,26680.24);
hDMP1->SetContourLevel(181,26828.46);
hDMP1->SetContourLevel(182,26976.68);
hDMP1->SetContourLevel(183,27124.91);
hDMP1->SetContourLevel(184,27273.13);
hDMP1->SetContourLevel(185,27421.35);
hDMP1->SetContourLevel(186,27569.58);
hDMP1->SetContourLevel(187,27717.8);
hDMP1->SetContourLevel(188,27866.02);
hDMP1->SetContourLevel(189,28014.25);
```

hDMP1->SetContourLevel(190,28162.47);
hDMP1->SetContourLevel(191,28310.69);
hDMP1->SetContourLevel(192,28458.92);
hDMP1->SetContourLevel(193,28607.14);
hDMP1->SetContourLevel(194,28755.36);
hDMP1->SetContourLevel(195,28903.59);
hDMP1->SetContourLevel(196,29051.81);
hDMP1->SetContourLevel(197,29200.04);
hDMP1->SetContourLevel(198,29348.26);
hDMP1->SetContourLevel(199,29496.48);
hDMP1->SetContourLevel(200,29644.71);
hDMP1->SetContourLevel(201,29792.93);
hDMP1->SetContourLevel(202,29941.15);
hDMP1->SetContourLevel(203,30089.38);
hDMP1->SetContourLevel(204,30237.6);
hDMP1->SetContourLevel(205,30385.82);
hDMP1->SetContourLevel(206,30534.05);
hDMP1->SetContourLevel(207,30682.27);
hDMP1->SetContourLevel(208,30830.49);
hDMP1->SetContourLevel(209,30978.72);
hDMP1->SetContourLevel(210,31126.94);
hDMP1->SetContourLevel(211,31275.16);
hDMP1->SetContourLevel(212,31423.39);
hDMP1->SetContourLevel(213,31571.61);
hDMP1->SetContourLevel(214,31719.84);
hDMP1->SetContourLevel(215,31868.06);
hDMP1->SetContourLevel(216,32016.28);
hDMP1->SetContourLevel(217,32164.51);
hDMP1->SetContourLevel(218,32312.73);
hDMP1->SetContourLevel(219,32460.95);
hDMP1->SetContourLevel(220,32609.18);
hDMP1->SetContourLevel(221,32757.4);
hDMP1->SetContourLevel(222,32905.62);
hDMP1->SetContourLevel(223,33053.85);
hDMP1->SetContourLevel(224,33202.07);
hDMP1->SetContourLevel(225,33350.29);
hDMP1->SetContourLevel(226,33498.52);
hDMP1->SetContourLevel(227,33646.74);
hDMP1->SetContourLevel(228,33794.96);
hDMP1->SetContourLevel(229,33943.19);
hDMP1->SetContourLevel(230,34091.41);
hDMP1->SetContourLevel(231,34239.64);
hDMP1->SetContourLevel(232,34387.86);
hDMP1->SetContourLevel(233,34536.08);
hDMP1->SetContourLevel(234,34684.31);
hDMP1->SetContourLevel(235,34832.53);
hDMP1->SetContourLevel(236,34980.75);
hDMP1->SetContourLevel(237,35128.98);
hDMP1->SetContourLevel(238,35277.2);
hDMP1->SetContourLevel(239,35425.42);
hDMP1->SetContourLevel(240,35573.65);
hDMP1->SetContourLevel(241,35721.87);
hDMP1->SetContourLevel(242,35870.09);
hDMP1->SetContourLevel(243,36018.32);

```

hDMP1->SetContourLevel(244,36166.54);
hDMP1->SetContourLevel(245,36314.76);
hDMP1->SetContourLevel(246,36462.99);
hDMP1->SetContourLevel(247,36611.21);
hDMP1->SetContourLevel(248,36759.44);
hDMP1->SetContourLevel(249,36907.66);
hDMP1->SetContourLevel(250,37055.88);
hDMP1->SetContourLevel(251,37204.11);
hDMP1->SetContourLevel(252,37352.33);
hDMP1->SetContourLevel(253,37500.55);
hDMP1->SetContourLevel(254,37648.78);

```

```

TPaletteAxis *palette = new
TPaletteAxis(462.7027,0,487.027,1,hDMP1);
palette->SetLabelColor(1);
palette->SetLabelFont(102);
palette->SetLabelOffset(0.005);
palette->SetLabelSize(0.04);
palette->SetTitleOffset(1);
palette->SetTitleSize(0.04);

```

```

Int_t ci; // for color index setting
TColor *color; // for color definition with alpha
ci = TColor::GetColor("#850100");
palette->SetFillColor(ci);
palette->SetFillStyle(1001);
hDMP1->GetListOfFunctions()->Add(palette,"br");
hDMP1->SetLineWidth(2);
hDMP1->GetXaxis()->SetTitle("S1 [PE]");
hDMP1->GetXaxis()->SetLabelFont(102);
hDMP1->GetXaxis()->SetTitleOffset(1.2);
hDMP1->GetXaxis()->SetTitleFont(102);
hDMP1->GetYaxis()->SetTitle("f_{90}");
hDMP1->GetYaxis()->SetLabelFont(102);
hDMP1->GetYaxis()->SetTitleOffset(1.3);
hDMP1->GetYaxis()->SetTitleFont(102);
hDMP1->GetZaxis()->SetLabelFont(102);
hDMP1->GetZaxis()->SetTitleFont(102);
hDMP1->Draw("colz");

```

```

Double_t g0_fx1005[5] = {
27.00316,
45.00474,
75.67102,
127.5915,
2000};
Double_t g0_fy1005[5] = {
0.5829318,
0.6420105,
0.6720925,
0.720226,
0.720226};
Double_t g0_fex1005[5] = {
1.81659,

```

```

3.322495,
5.008717,
9.09608,
0};
Double_t g0_fey1005[5] = {
0.01334745,
0.0104741,
0.01021151,
0.01079841,
0};
TGraphErrors *gre = new
TGraphErrors(5,g0_fx1005,g0_fy1005,g0_fex1005,g0_fey1005);
gre->SetName("g0");
gre->SetTitle("50% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
gre->SetLineColor(ci);

TH1F *Graph_Graph_g010011005 = new
TH1F("Graph_Graph_g010011005","50% Acceptance Curve",
100,0,2197.481);
Graph_Graph_g010011005->SetMinimum(0.5534404);
Graph_Graph_g010011005->SetMaximum(0.7471684);
Graph_Graph_g010011005->SetDirectory(0);
Graph_Graph_g010011005->SetStats(0);
Graph_Graph_g010011005->SetLineWidth(2);
Graph_Graph_g010011005->GetXaxis()->SetLabelFont(102);
Graph_Graph_g010011005->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_g010011005->GetXaxis()->SetTitleFont(102);
Graph_Graph_g010011005->GetYaxis()->SetLabelFont(102);
Graph_Graph_g010011005->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_g010011005->GetYaxis()->SetTitleFont(102);
Graph_Graph_g010011005->GetZaxis()->SetLabelFont(102);
Graph_Graph_g010011005->GetZaxis()->SetTitleFont(102);
gre->SetHistogram(Graph_Graph_g010011005);

gre->Draw("p");

Double_t g1_fx1006[5] = {
27.00316,
45.00474,
75.67102,
127.5915,
2000};
Double_t g1_fy1006[5] = {
0.5399005,
0.6095891,
0.6467233,
0.7003276,
0.7003276};
Double_t g1_fex1006[5] = {
1.81659,
3.322495,
5.008717,

```

```

9.09608,
0};
Double_t g1_fey1006[5] = {
0.0135516,
0.01068516,
0.01037219,
0.01093488,
0};
gre = new
TGraphErrors(5,g1_fx1006,g1_fy1006,g1_fex1006,g1_fey1006);
gre->SetName("g1");
gre->SetTitle("65% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
gre->SetLineColor(ci);

TH1F *Graph_Graph_g110021006 = new
TH1F("Graph_Graph_g110021006","65% Acceptance Curve",
100,0,2197.481);
Graph_Graph_g110021006->SetMinimum(0.5078575);
Graph_Graph_g110021006->SetMaximum(0.7297538);
Graph_Graph_g110021006->SetDirectory(0);
Graph_Graph_g110021006->SetStats(0);
Graph_Graph_g110021006->SetLineWidth(2);
Graph_Graph_g110021006->GetXaxis()->SetLabelFont(102);
Graph_Graph_g110021006->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_g110021006->GetXaxis()->SetTitleFont(102);
Graph_Graph_g110021006->GetYaxis()->SetLabelFont(102);
Graph_Graph_g110021006->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_g110021006->GetYaxis()->SetTitleFont(102);
Graph_Graph_g110021006->GetZaxis()->SetLabelFont(102);
Graph_Graph_g110021006->GetZaxis()->SetTitleFont(102);
gre->SetHistogram(Graph_Graph_g110021006);

gre->Draw("p");

Double_t g2_fx1007[5] = {
27.00316,
45.00474,
75.67102,
127.5915,
2000};
Double_t g2_fy1007[5] = {
0.4875419,
0.57057,
0.6165641,
0.6768924,
0.6768924};
Double_t g2_fex1007[5] = {
1.81659,
3.322495,
5.008717,
9.09608,
0};

```

```

Double_t g2_fey1007[5] = {
0.0137919,
0.01093935,
0.01056674,
0.01110355,
0};
gre = new
TGraphErrors(5,g2_fx1007,g2_fy1007,g2_fex1007,g2_fey1007);
gre->SetName("g2");
gre->SetTitle("80% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
gre->SetLineColor(ci);

TH1F *Graph_Graph_g210031007 = new
TH1F("Graph_Graph_g210031007","80% Acceptance Curve",
100,0,2197.481);
Graph_Graph_g210031007->SetMinimum(0.4523254);
Graph_Graph_g210031007->SetMaximum(0.7094206);
Graph_Graph_g210031007->SetDirectory(0);
Graph_Graph_g210031007->SetStats(0);
Graph_Graph_g210031007->SetLineWidth(2);
Graph_Graph_g210031007->GetXaxis()->SetLabelFont(102);
Graph_Graph_g210031007->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_g210031007->GetXaxis()->SetTitleFont(102);
Graph_Graph_g210031007->GetYaxis()->SetLabelFont(102);
Graph_Graph_g210031007->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_g210031007->GetYaxis()->SetTitleFont(102);
Graph_Graph_g210031007->GetZaxis()->SetLabelFont(102);
Graph_Graph_g210031007->GetZaxis()->SetTitleFont(102);
gre->SetHistogram(Graph_Graph_g210031007);

gre->Draw("p");

Double_t g3_fx1008[5] = {
27.00316,
45.00474,
75.67102,
127.5915,
2000};
Double_t g3_fy1008[5] = {
0.4339739,
0.5315939,
0.5870459,
0.6542741,
0.6542741};
Double_t g3_fex1008[5] = {
1.81659,
3.322495,
5.008717,
9.09608,
0};
Double_t g3_fey1008[5] = {
0.01402462,

```

```

0.01119281,
0.0107612,
0.01126921,
0};
gre = new
TGraphErrors(5,g3_fx1008,g3_fy1008,g3_fex1008,g3_fey1008);
gre->SetName("g3");
gre->SetTitle("90% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
gre->SetLineColor(ci);

TH1F *Graph_Graph_g310041008 = new
TH1F("Graph_Graph_g310041008","90% Acceptance Curve",
100,0,2197.481);
Graph_Graph_g310041008->SetMinimum(0.3953899);
Graph_Graph_g310041008->SetMaximum(0.6901027);
Graph_Graph_g310041008->SetDirectory(0);
Graph_Graph_g310041008->SetStats(0);
Graph_Graph_g310041008->SetLineWidth(2);
Graph_Graph_g310041008->GetXaxis()->SetLabelFont(102);
Graph_Graph_g310041008->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_g310041008->GetXaxis()->SetTitleFont(102);
Graph_Graph_g310041008->GetYaxis()->SetLabelFont(102);
Graph_Graph_g310041008->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_g310041008->GetYaxis()->SetTitleFont(102);
Graph_Graph_g310041008->GetZaxis()->SetLabelFont(102);
Graph_Graph_g310041008->GetZaxis()->SetTitleFont(102);
gre->SetHistogram(Graph_Graph_g310041008);

gre->Draw("p");

Double_t g4_fx9[500] = {
0.6310319,
1.923805,
3.257524,
4.632189,
6.0478,
7.504357,
9.001859,
10.54031,
12.1197,
13.74004,
15.40133,
17.10356,
18.84674,
20.63086,
22.45593,
24.32195,
26.22891,
28.17682,
30.16567,
32.19547,
34.26621,

```


36.3779,
38.53054,
40.72412,
42.95865,
45.25921,
47.83728,
50.47596,
53.17527,
55.9352,
58.75574,
61.6369,
64.57868,
67.58108,
70.6441,
73.76774,
76.60252,
78.94021,
81.29064,
83.65382,
86.02974,
88.41841,
90.81983,
93.23399,
95.6609,
98.10055,
100.553,
103.0181,
105.496,
107.9866,
110.49,
113.0061,
115.535,
118.0766,
120.631,
123.1981,
125.778,
128.2606,
130.4913,
132.7219,
134.9525,
137.1831,
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TGraph * graph = new TGraph(500,g4_fx9,g4_fy9);
graph->SetName("g4");
graph->SetTitle("50% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
graph->SetLineColor(ci);

TH1F *Graph_Graph_g419 = new TH1F("Graph_Graph_g419","50%
Acceptance Curve",500,0,2199.937);
Graph_Graph_g419->SetMinimum(0.4550807);
Graph_Graph_g419->SetMaximum(0.7443303);
Graph_Graph_g419->SetDirectory(0);
Graph_Graph_g419->SetStats(0);
Graph_Graph_g419->SetLineWidth(2);
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Graph_Graph_g419->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_g419->GetXaxis()->SetTitleFont(102);
Graph_Graph_g419->GetYaxis()->SetLabelFont(102);
Graph_Graph_g419->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_g419->GetYaxis()->SetTitleFont(102);
Graph_Graph_g419->GetZaxis()->SetLabelFont(102);
Graph_Graph_g419->GetZaxis()->SetTitleFont(102);
graph->SetHistogram(Graph_Graph_g419);

graph->Draw("l");

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graph = new TGraph(500,g5_fx10,g5_fy10);
graph->SetName("g5");
graph->SetTitle("65% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
graph->SetLineColor(ci);

TH1F *Graph_Graph_g5210 = new TH1F("Graph_Graph_g5210","65%
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graph->Draw("l");

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ci = TColor::GetColor("#ff0000");
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TH1F *Graph_Graph_g6311 = new TH1F("Graph_Graph_g6311","80%
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graph->Draw("l");

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graph = new TGraph(500,g7_fx12,g7_fy12);
graph->SetName("g7");
graph->SetTitle("90% Acceptance Curve");

ci = TColor::GetColor("#ff0000");
graph->SetLineColor(ci);

TH1F *Graph_Graph_g7412 = new TH1F("Graph_Graph_g7412","90%
Acceptance Curve",500,0,2199.937);
Graph_Graph_g7412->SetMinimum(0.09714993);
Graph_Graph_g7412->SetMaximum(0.75473);
Graph_Graph_g7412->SetDirectory(0);
Graph_Graph_g7412->SetStats(0);
Graph_Graph_g7412->SetLineWidth(2);
Graph_Graph_g7412->GetXaxis()->SetLabelFont(102);
Graph_Graph_g7412->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_g7412->GetXaxis()->SetTitleFont(102);
Graph_Graph_g7412->GetYaxis()->SetLabelFont(102);
Graph_Graph_g7412->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_g7412->GetYaxis()->SetTitleFont(102);
Graph_Graph_g7412->GetZaxis()->SetLabelFont(102);
Graph_Graph_g7412->GetZaxis()->SetTitleFont(102);
graph->SetHistogram(Graph_Graph_g7412);

graph->Draw("l");

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graph = new TGraph(385,gdwa_fx13,gdwa_fy13);
graph->SetName("gdwa");
graph->SetTitle("Wide Dark Matter Box 0.1 Events Residual");

ci = TColor::GetColor("#0000ff");
graph->SetFillColor(ci);
graph->SetFillStyle(1001);

ci = TColor::GetColor("#0000ff");
graph->SetLineColor(ci);

TH1F *Graph_Graph_Graph_gdwa5613 = new
TH1F("Graph_Graph_Graph_gdwa5613","Wide Dark Matter Box 0.1 Events
Residual",385,42,498);
Graph_Graph_Graph_gdwa5613->SetMinimum(0.6101506);
Graph_Graph_Graph_gdwa5613->SetMaximum(1.035441);
Graph_Graph_Graph_gdwa5613->SetDirectory(0);
Graph_Graph_Graph_gdwa5613->SetStats(0);
Graph_Graph_Graph_gdwa5613->SetLineWidth(2);
Graph_Graph_Graph_gdwa5613->GetXaxis()->SetLabelFont(102);
Graph_Graph_Graph_gdwa5613->GetXaxis()->SetTitleOffset(1.2);
Graph_Graph_Graph_gdwa5613->GetXaxis()->SetTitleFont(102);
Graph_Graph_Graph_gdwa5613->GetYaxis()->SetLabelFont(102);
Graph_Graph_Graph_gdwa5613->GetYaxis()->SetTitleOffset(1.3);
Graph_Graph_Graph_gdwa5613->GetYaxis()->SetTitleFont(102);
Graph_Graph_Graph_gdwa5613->GetZaxis()->SetLabelFont(102);
Graph_Graph_Graph_gdwa5613->GetZaxis()->SetTitleFont(102);
graph->SetHistogram(Graph_Graph_Graph_gdwa5613);

graph->Draw("fl");

Double_t gdwa_fx14[385] = {
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Double_t gdwa_fy14[385] = {  
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0.6808817,  
0.6809176,  
0.6809532,  
0.6809888,  
0.6810243,  
0.6810596,  
1,  
1};  
graph = new TGraph(385,gdwa_fx14,gdwa_fy14);  
graph->SetName("gdwa");  
graph->SetTitle("Wide Dark Matter Box 0.1 Events Residual");  
  
ci = TColor::GetColor("#0000ff");
```

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graph->SetFillColor(ci);

ci = TColor::GetColor("#0000ff");
graph->SetLineColor(ci);

TH1F *Graph_Graph_Graph_Graph_gdwa561314 = new
TH1F("Graph_Graph_Graph_Graph_gdwa561314","Wide Dark Matter Box 0.1
Events Residual",385,42,498);
Graph_Graph_Graph_Graph_gdwa561314->SetMinimum(0.6101506);
Graph_Graph_Graph_Graph_gdwa561314->SetMaximum(1.035441);
Graph_Graph_Graph_Graph_gdwa561314->SetDirectory(0);
Graph_Graph_Graph_Graph_gdwa561314->SetStats(0);
Graph_Graph_Graph_Graph_gdwa561314->SetLineWidth(2);
Graph_Graph_Graph_Graph_gdwa561314->GetXaxis()-
>SetLabelFont(102);
Graph_Graph_Graph_Graph_gdwa561314->GetXaxis()-
>SetTitleOffset(1.2);
Graph_Graph_Graph_Graph_gdwa561314->GetXaxis()-
>SetTitleFont(102);
Graph_Graph_Graph_Graph_gdwa561314->GetYaxis()-
>SetLabelFont(102);
Graph_Graph_Graph_Graph_gdwa561314->GetYaxis()-
>SetTitleOffset(1.3);
Graph_Graph_Graph_Graph_gdwa561314->GetYaxis()-
>SetTitleFont(102);
Graph_Graph_Graph_Graph_gdwa561314->GetZaxis()-
>SetLabelFont(102);
Graph_Graph_Graph_Graph_gdwa561314->GetZaxis()-
>SetTitleFont(102);
graph->SetHistogram(Graph_Graph_Graph_Graph_gdwa561314);

graph->Draw("l");

Double_t grs0_fx15[405] = {
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Double_t grs0_fy15[405] = {  
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0.6808817,
0.6809176,
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0.6809888,
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0.6810596,
1,
1};
graph = new TGraph(405,grs0_fx15,grs0_fy15);
graph->SetName("grs0");
graph->SetTitle("Wide Dark Matter Box 0.1 Events Residual");

ci = TColor::GetColor("#0000ff");
graph->SetFillColor(ci);
graph->SetFillStyle(4000);

ci = TColor::GetColor("#0000ff");
graph->SetLineColor(ci);
graph->SetLineStyle(2);

TH1F *Graph_Graph_Graph_grs07815 = new
TH1F("Graph_Graph_Graph_grs07815","Wide Dark Matter Box 0.1 Events
Residual",405,20,500);
Graph_Graph_Graph_grs07815->SetMinimum(0.6101506);
Graph_Graph_Graph_grs07815->SetMaximum(1.035441);
Graph_Graph_Graph_grs07815->SetDirectory(0);
Graph_Graph_Graph_grs07815->SetStats(0);

```

```
ci = TColor::GetColor("#000099");
Graph_Graph_Graph_grs07815->SetLineColor(ci);
Graph_Graph_Graph_grs07815->GetXaxis()->SetLabelFont(42);
Graph_Graph_Graph_grs07815->GetXaxis()->SetLabelSize(0.035);
Graph_Graph_Graph_grs07815->GetXaxis()->SetTitleSize(0.035);
Graph_Graph_Graph_grs07815->GetXaxis()->SetTitleFont(42);
Graph_Graph_Graph_grs07815->GetYaxis()->SetLabelFont(42);
Graph_Graph_Graph_grs07815->GetYaxis()->SetLabelSize(0.035);
Graph_Graph_Graph_grs07815->GetYaxis()->SetTitleSize(0.035);
Graph_Graph_Graph_grs07815->GetYaxis()->SetTitleFont(42);
Graph_Graph_Graph_grs07815->GetZaxis()->SetLabelFont(42);
Graph_Graph_Graph_grs07815->GetZaxis()->SetLabelSize(0.035);
Graph_Graph_Graph_grs07815->GetZaxis()->SetTitleSize(0.035);
Graph_Graph_Graph_grs07815->GetZaxis()->SetTitleFont(42);
graph->SetHistogram(Graph_Graph_Graph_grs07815);
```

```
graph->Draw("f");
```

```
Double_t grs0_fx16[405] = {
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0.6808458,
0.6808817,
0.6809176,
0.6809532,
0.6809888,
0.6810243,
0.6810596,
1,
1};
graph = new TGraph(405,grs0_fx16,grs0_fy16);
graph->SetName("grs0");
graph->SetTitle("Wide Dark Matter Box 0.1 Events Residual");

ci = TColor::GetColor("#0000ff");
graph->SetFillColor(ci);
graph->SetFillStyle(0);

ci = TColor::GetColor("#0000ff");
graph->SetLineColor(ci);
graph->SetLineStyle(2);

TH1F *Graph_Graph_Graph_Graph_grs0781516 = new
TH1F("Graph_Graph_Graph_Graph_grs0781516","Wide Dark Matter Box 0.1
Events Residual",405,20,500);
Graph_Graph_Graph_Graph_grs0781516->SetMinimum(0.6101506);
Graph_Graph_Graph_Graph_grs0781516->SetMaximum(1.035441);
Graph_Graph_Graph_Graph_grs0781516->SetDirectory(0);
Graph_Graph_Graph_Graph_grs0781516->SetStats(0);

ci = TColor::GetColor("#000099");
Graph_Graph_Graph_Graph_grs0781516->SetLineColor(ci);
Graph_Graph_Graph_Graph_grs0781516->GetXaxis()->SetLabelFont(42);
Graph_Graph_Graph_Graph_grs0781516->GetXaxis()-
>SetLabelSize(0.035);
Graph_Graph_Graph_Graph_grs0781516->GetXaxis()-
>SetTitleSize(0.035);
Graph_Graph_Graph_Graph_grs0781516->GetXaxis()->SetTitleFont(42);
Graph_Graph_Graph_Graph_grs0781516->GetYaxis()->SetLabelFont(42);
Graph_Graph_Graph_Graph_grs0781516->GetYaxis()-
>SetLabelSize(0.035);
Graph_Graph_Graph_Graph_grs0781516->GetYaxis()-
>SetTitleSize(0.035);

```

```

    Graph_Graph_Graph_Graph_grs0781516->GetYaxis()->SetTitleFont(42);
    Graph_Graph_Graph_Graph_grs0781516->GetZaxis()->SetLabelFont(42);
    Graph_Graph_Graph_Graph_grs0781516->GetZaxis()-
>SetLabelSize(0.035);
    Graph_Graph_Graph_Graph_grs0781516->GetZaxis()-
>SetTitleSize(0.035);
    Graph_Graph_Graph_Graph_grs0781516->GetZaxis()->SetTitleFont(42);
    graph->SetHistogram(Graph_Graph_Graph_Graph_grs0781516);

    graph->Draw("l");
    TText *text = new TText(130,0.721,"50%");
    text->SetTextFont(102);
    text->SetTextSize(0.03);
    text->Draw();
    text = new TText(150,0.7,"65%");
    text->SetTextFont(102);
    text->SetTextSize(0.03);
    text->Draw();
    text = new TText(170,0.677,"80%");
    text->SetTextFont(102);
    text->SetTextSize(0.03);
    text->Draw();
    text = new TText(190,0.66,"90%");
    text->SetTextFont(102);
    text->SetTextSize(0.03);
    text->Draw();
    c_stat_dms_pl->Modified();
    c_stat_dms_pl->cd();
    c_stat_dms_pl->SetSelected(c_stat_dms_pl);
}

```