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Subject: Re: Bear Smear and Cross Sections

Posted by [Ingo Fröhlich](#) on Tue, 28 Aug 2012 06:53:24 GMT

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You can also construct in a similar way like follows, but I haven't tested the performance with 64 if-constructions

```
TH1F *distribution = new TH1F("distribution", "Angular distribution", 10, -1 , 1 );
distribution->SetBinContent(1,20.);
distribution->SetBinContent(2,16.);
distribution->SetBinContent(3,11.);
distribution->SetBinContent(4,8.);
distribution->SetBinContent(5,5.);
distribution->SetBinContent(6,4.);
distribution->SetBinContent(7,3.);
distribution->SetBinContent(8,2.5);
distribution->SetBinContent(9,2.);
distribution->SetBinContent(10,1.);
```

```
TH1F *distribution2 = new TH1F("distribution2", "Angular distribution2", 10, -1 , 1 );
distribution2->SetBinContent(1,10.);
distribution2->SetBinContent(2,11.);
distribution2->SetBinContent(3,12.);
distribution2->SetBinContent(4,13);
distribution2->SetBinContent(5,14);
distribution2->SetBinContent(6,17);
distribution2->SetBinContent(7,30);
distribution2->SetBinContent(8,40);
distribution2->SetBinContent(9,45);
distribution2->SetBinContent(10,60);
```

```
TH1F *distribution3 = new TH1F("distribution3", "Angular distribution2", 10, -1 , 1 );
distribution3->SetBinContent(1,1.);
distribution3->SetBinContent(2,1.);
distribution3->SetBinContent(3,1.);
distribution3->SetBinContent(4,1);
distribution3->SetBinContent(5,1);
distribution3->SetBinContent(6,1);
distribution3->SetBinContent(7,3);
distribution3->SetBinContent(8,4);
distribution3->SetBinContent(9,4);
distribution3->SetBinContent(10,6);
```

```
model->AddHistogram(distribution,"if (_y < 1.601) _f = Eval(_x);");
model->AddHistogram(distribution2,"if (_y > 1.600 && _y < 1.801) _f = Eval(_x);");
model->AddHistogram(distribution3,"if (_y > 1.800) _f = Eval(_x);");
```