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Subject: Pnd4CFitter - how to use it

Posted by [Elisabetta Prencipe \(2\)](#) on Fri, 30 Aug 2013 13:03:25 GMT

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Dear Rho experts,

I am reconstructing the meson  $D_s(2536)^+$  through its decay to  $D^{*0} K^+$ ,  $D^{*0}$  to  $D^0 \gamma$ ,  $D^0$  to  $K^- \pi^+$ .

With the vertex fit or the mass constrained fit, no problems...I mean, I get troubles with the reconstruction of neutrals such as gammas, but this is another topic. My question now is the following: I have my Ds2535 list, and I write:

```
for (j=0;j<Ds2535.GetLength();++j)
{
    Pnd4CFitter fitter(Ds2535[j],ini);
    fitter.FitConserveMasses();
    double chi2_4c=fitter.GetChi2();
    hm_chi2_4c->Fill(chi2_4c);

    if (chi2_4c<40)
    {
        RhoCandidate *jfit = Ds2535[j]->GetFit();
        RhoCandidate *jfit2=Ds2535[j]->Daughter(0)->GetFit();

        h_4cf->Fill(jfit->M());
        h_4cf2->Fill(jfit2->M());

    }
}
```

The histograms are filled, but with crazy results. What am I doing so wrong? thank you for any feedback!

Elisabetta

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