Subject: Re: Dalitz Decays of higher resonances.
Posted by Ingo Fröhlich on Thu, 13 Oct 2011 05:52:28 GMT
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Adrian Dybczak wrote on Wed, 12 October 2011 18:54

After several tests i redeclared N1535 resonance in macro without using names from pluto. This was only way to get "proper" result.

What was wrong with the build-in version in "dalitz_mod"? It would be important for me to know this.

Adrian Dybczak wrote on Wed, 12 October 2011 18:54
now getting 5.36e-6/0.11 = 4.8e-5
What was assumed in macro as 5.0e-5

Remember: What you declare in Pluto is the static branching ratio. What you see in the histogram is the weight directly coming from the model (basically the coupling constant), this we can see here:

my_reaction->Do("_w = _w * {N1520+_dalitz}->GetBR([N1520+]->M());");

what is done here is to fold the weight with the mass-dependent branching ratio. This was (originally) implemented to feed the Pythia rho into Pluto in order to change the shape.