
Subject: Re: generate rho0->pi+pi- but found the rho0 has no width

Posted by [Ingo Fröhlich](#) on Fri, 03 Jun 2016 13:04:50 GMT

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This is because the decay $\eta' \rightarrow \rho^0 + \gamma$ has no model included, one can see this in the printout:

2. $\eta' \rightarrow \rho^0 + \text{photon}$

Interaction model(s):

[eta'_fixed_g_rho0] Fixed product masses {}

[eta'_genbod_g_rho0] Pluto build-in genbod {/genbod}

I don't know if this is the correct physics model, but a decay with a simple Breit-Wigner can be done by adding these lines:

```
PHadronDecayM1N *newmodel =
```

```
    new PHadronDecayM1N("rho_model@eta'_to_rho0_g", "Patched rho model", -1);
```

```
makeDistributionManager()->Add(newmodel);
```
