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Subject: Re: generate rho0->pi+pi- but found the rho0 has no width  
Posted by [Ingo Froehlich](#) on Fri, 03 Jun 2016 13:04:50 GMT

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This is because the decay eta' -> rho0 + gamma has no model included, one can see this in the printout:

2. eta' --> rho0 + 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);
```