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Subject: [OK] J/psi->ee and J/psi->mumu  
Posted by [Elisa Fioravanti](#) on Mon, 14 Apr 2014 08:40:13 GMT  
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Dear all,

I would like to ask you if there is a way to reconstruct the J/psi in both the electronic and muonic decay modes.

I set both the decay modes into my decay file and then in my macro I do:

```
jpsiee.Combine(eminus,eplus);  
jpsimm.SetType(443);  
for(j=0;j<jpsiee.GetLength();++j){  
    invmassee->Fill(jpsiee[j]->M());  
}
```

```
        jpsimm.Combine(muminus,muplus);  
jpsimm.SetType(443);  
for(j=0;j<jpsimm.GetLength();++j){  
    invmassmm->Fill(jpsimm[j]->M());  
}
```

Now, is there the possibility to have a single RhoCandList where the J/psi is formed by both jpsiee and jpsimm?

I would like to have a single RhoCandList

there the J/psi is formed by both the electronic and muonic decay modes.

Thanks in advance,  
Elisa

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Subject: Re: J/psi->ee and J/psi->mumu  
Posted by [Klaus Götzen](#) on Mon, 14 Apr 2014 09:53:32 GMT  
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Hi Elisa,

yes, you can use the RhoCandList::CombineAndAppend() method like

```
RhoCandList jpsi, ep, em, mup, mum;  
...  
jpsi.Combine(ep,em);  
jpsi.CombineAndAppend(mup,mum);  
jpsi.SetType(443);
```

or the Append method

```
RhoCandList jpsi, jpsi2, ep, em, mup, mum;  
...  
jpsi.Combine(ep,em);  
jpsi2.Combine(mup,mum);
```

```
jpsi.Append(jpsi2);  
jpsi.SetType(443);
```

Best,  
Klaus

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Subject: Re: J/psi->ee and J/psi->mumu  
Posted by [Elisa Fioravanti](#) on Mon, 14 Apr 2014 10:34:14 GMT  
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Thank you very much Klaus!  
Elisa

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Subject: Re: J/psi->ee and J/psi->mumu  
Posted by [MartinJGaluska](#) on Mon, 14 Apr 2014 11:37:42 GMT  
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Hi Elisa,

I noticed a typo in the code you posted:

```
jpsiee.Combine(eminus,eplus);  
jpsimm.SetType(443);
```

should be

```
jpsiee.Combine(eminus,eplus);  
jpsiee.SetType(443);
```

(I have just realized that with Ralf's modification the typo should not have any effect anymore.)

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Subject: Re: J/psi->ee and J/psi->mumu  
Posted by [Elisa Fioravanti](#) on Mon, 14 Apr 2014 11:39:13 GMT  
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Hi Martin,

I have already corrected it.

Thanks  
Elisa

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