

PLR

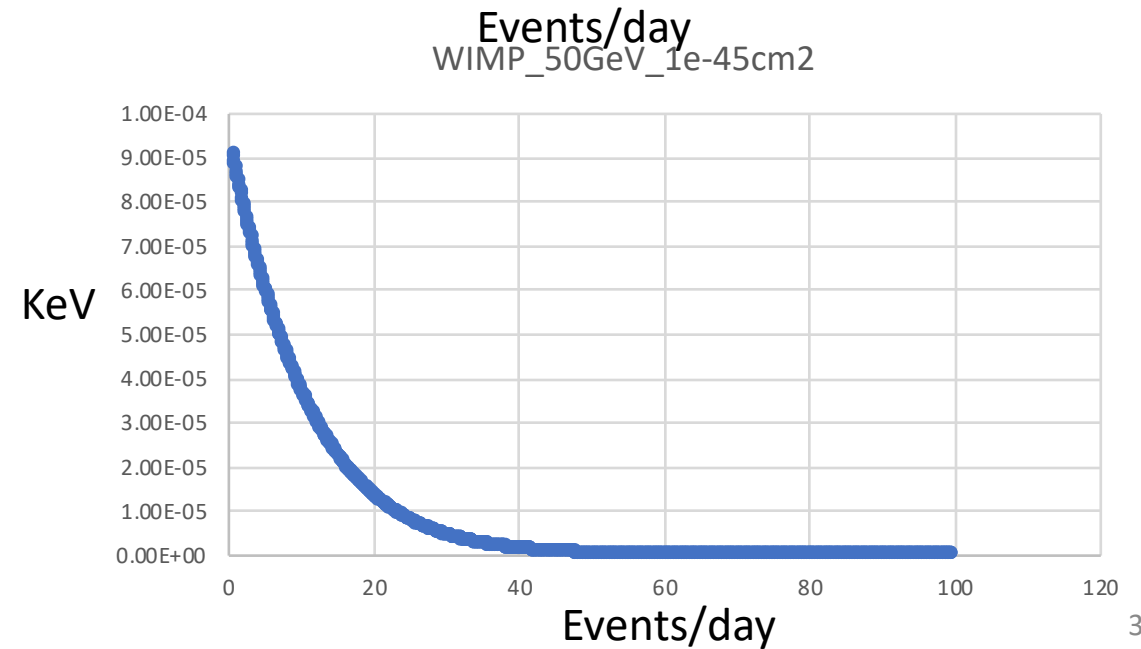
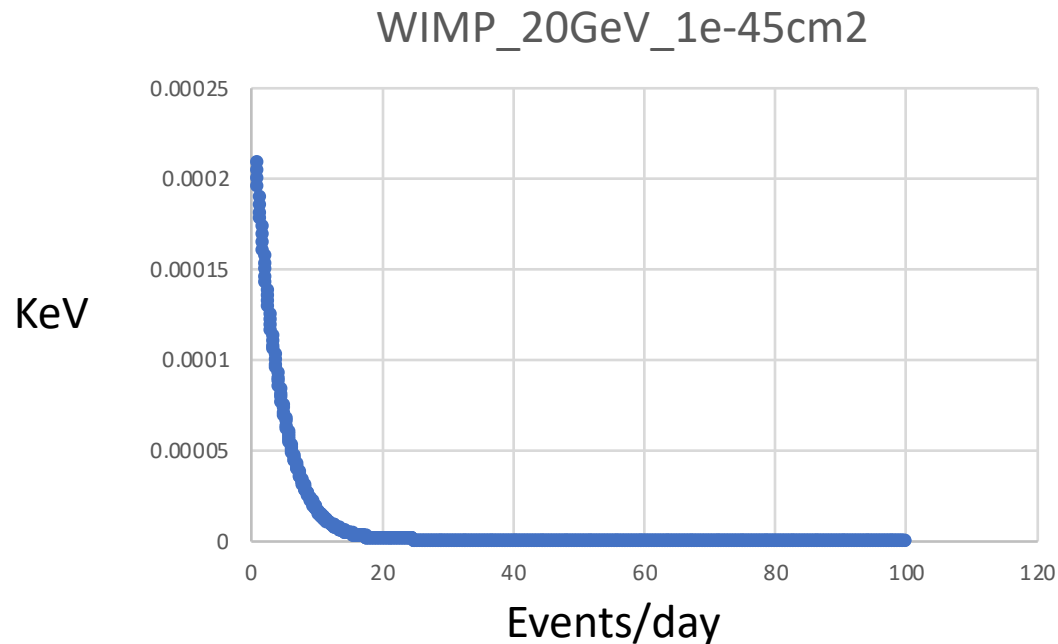
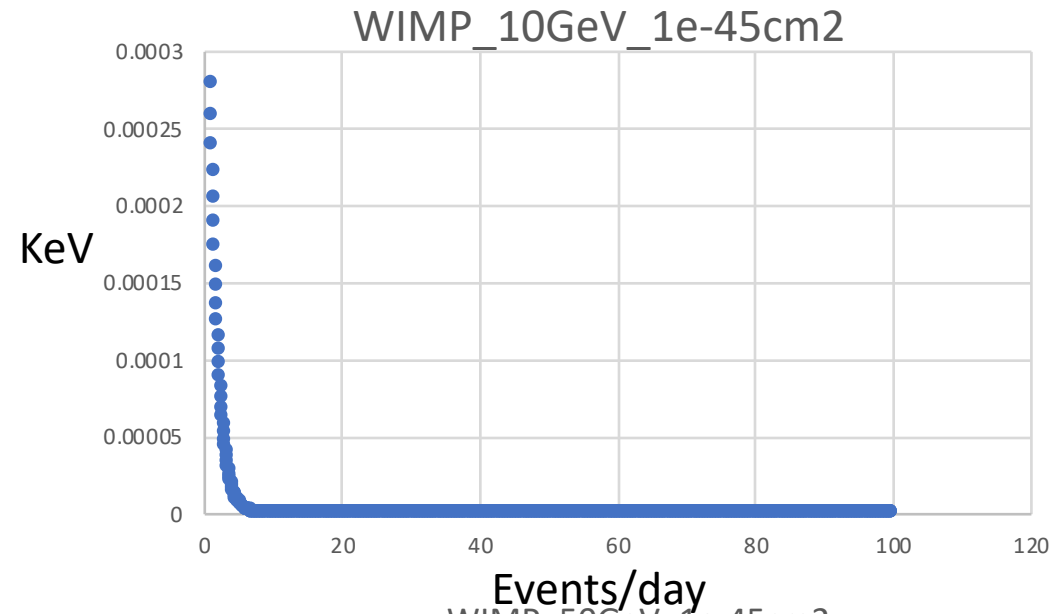
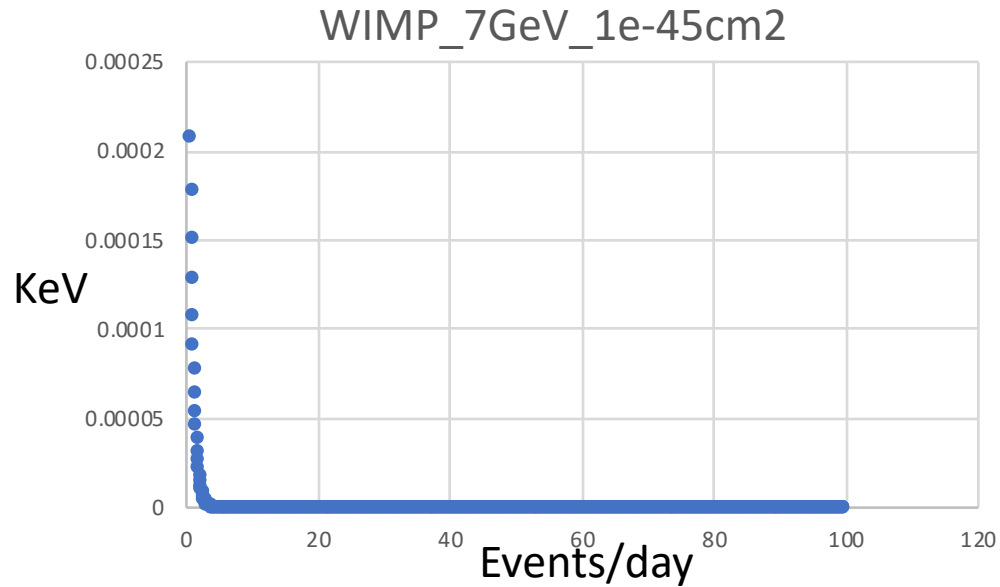
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Understanding of the Code

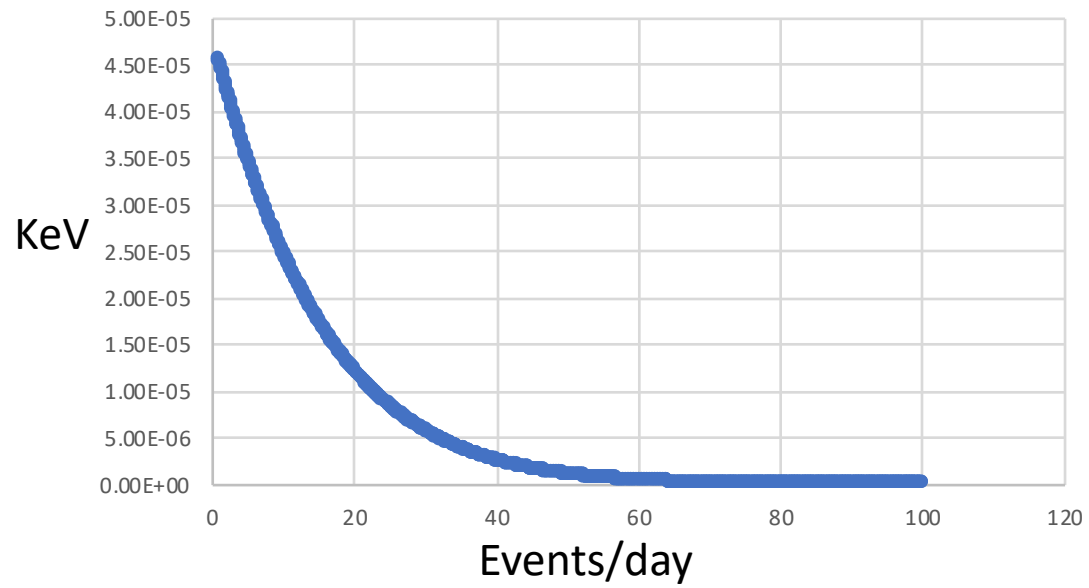
- Create the likelihood function for different WIMP masses
 - Use the configuration from `base_model` and remove WIMPs source
 - Add each WIMP mass with cross section = $1\text{e-}45\text{cm}^2$ from the list(csv files) to the configuration
- Partial Data CSV files for 20GeV:

```
,kev,events_per_day  
0,1.0,0.00020848067794329805  
1,1.0990990990990992,0.00020367368113539743  
2,1.1981981981981982,0.00019895572223822055
```

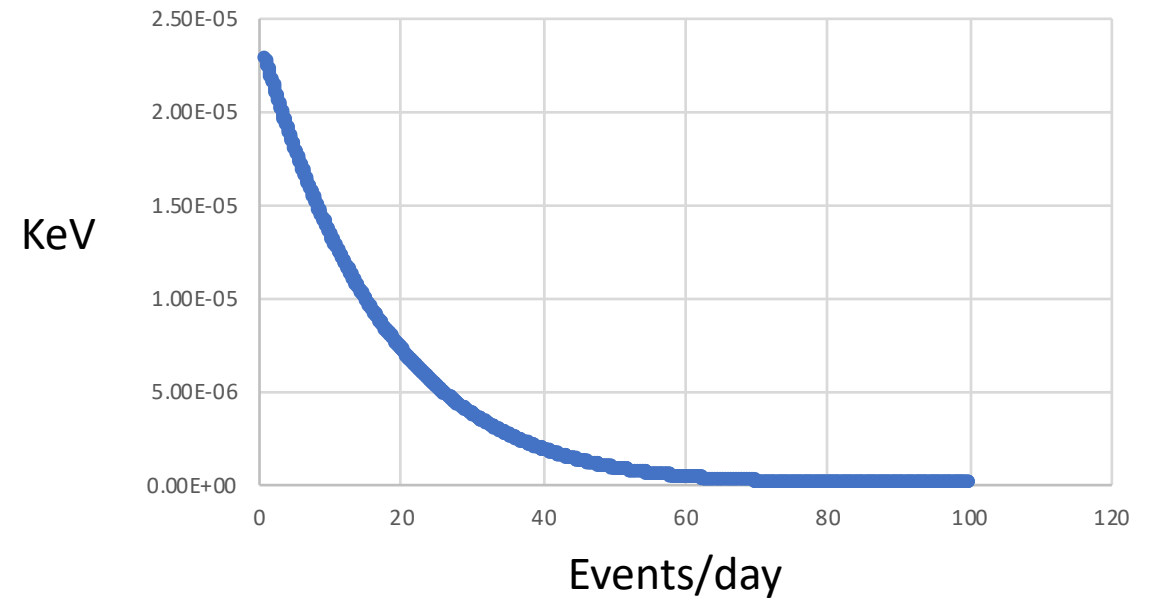
Plotted CSV files used for WIMP:



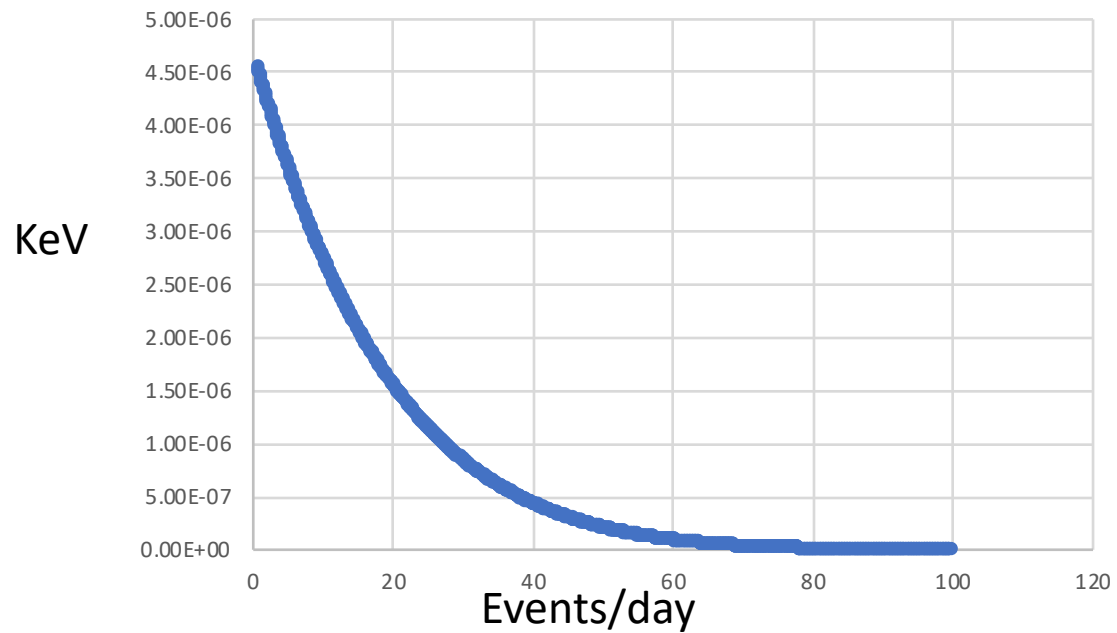
WIMP_100GeV_1e-45cm2



WIMP_200GeV_1e-45cm2



WIMP_1000GeV_1e-45cm2



Plot log likelihood function: (10000trials)

For 7 GeV and 10 GeV, the likelihood ratio is to low.

