Section 1

Collider simulation of the MDM model

In this appendix, we explain the procedure we have adopted to implement the MDM model into the numerical calculation performed in **??**.

In the Listing 1, we show a part of our `FeynRules` model file `mdm.fr`. This corresponds to the necessary additional description to the SM model file `sm.fr` to take account of the 5-plet fermion.

Listing 1: `mdm.fr`

```
1 #include<stdio.h>
2 int main(){
3     printf("Hello world!");
4 }
```