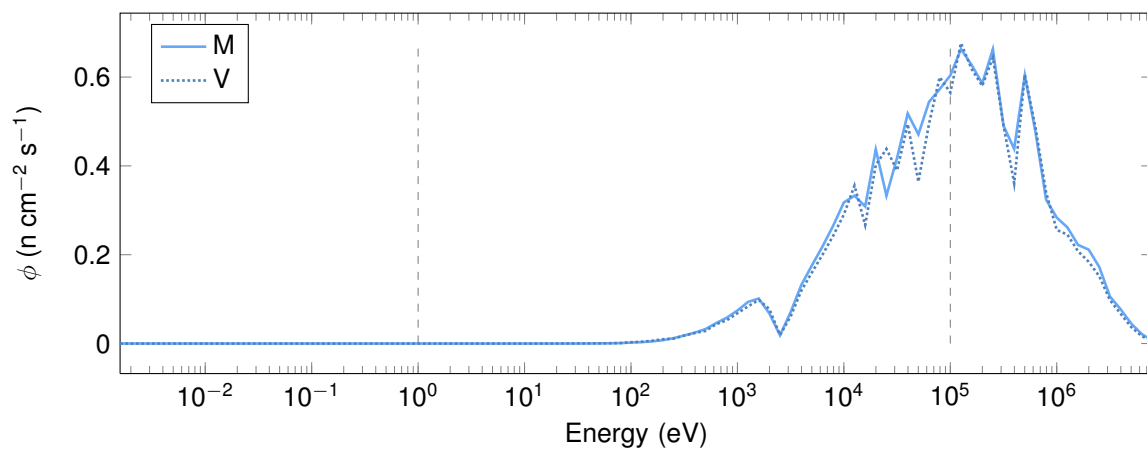
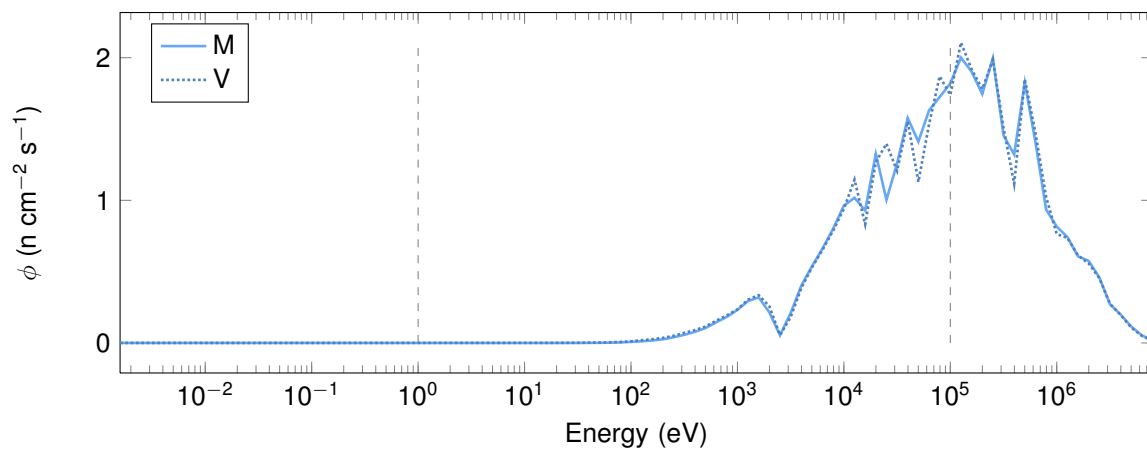
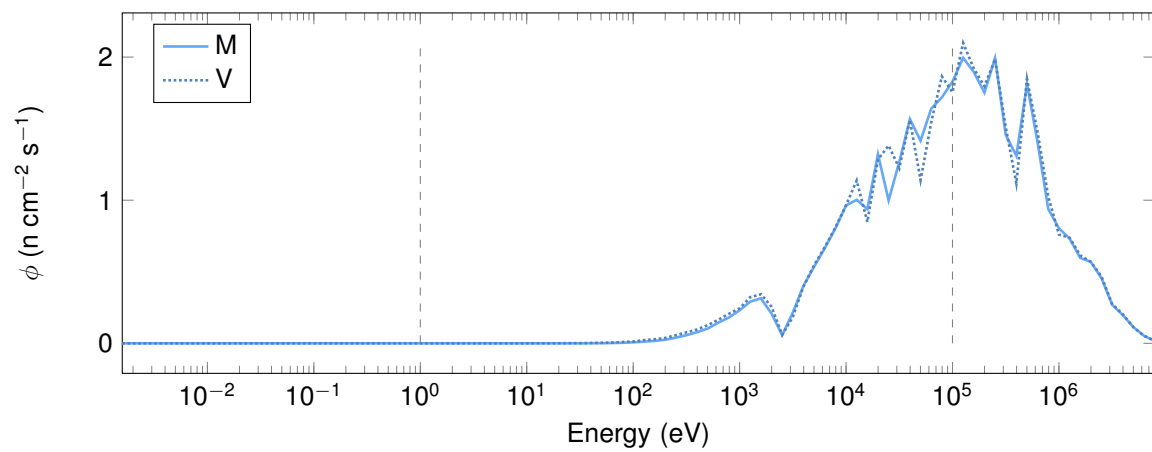


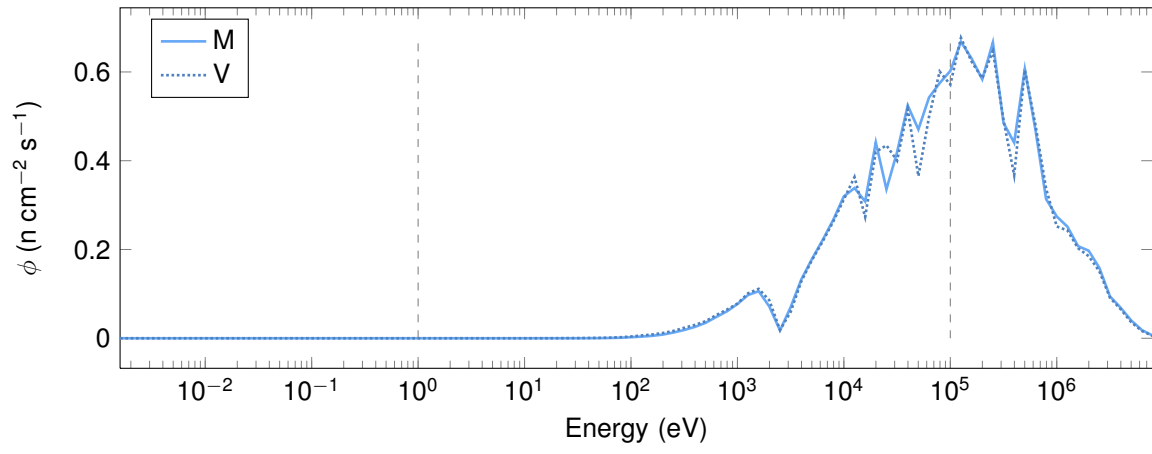
# Comparison between VBUDSII and MCNPX

August 13, 2012

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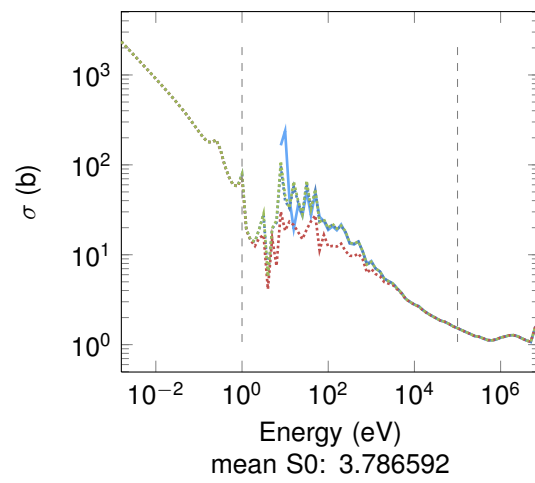
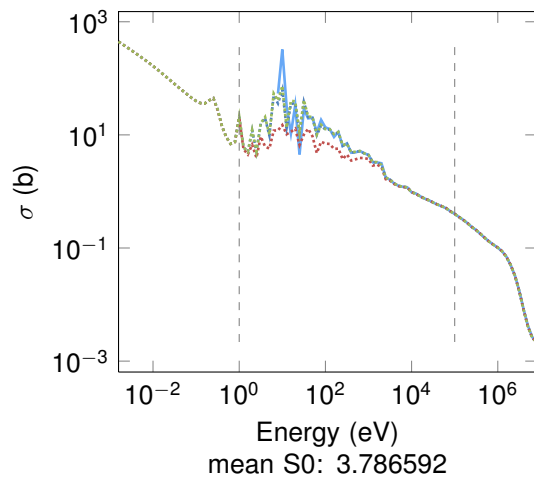
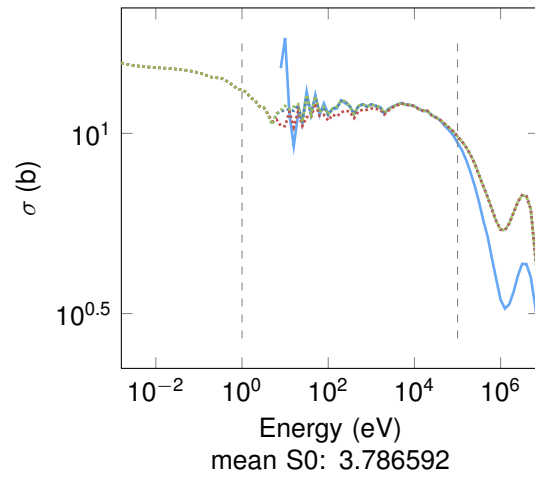
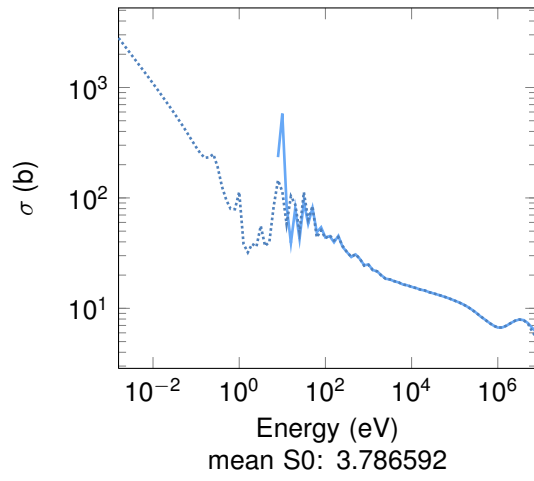
# 1 Flux



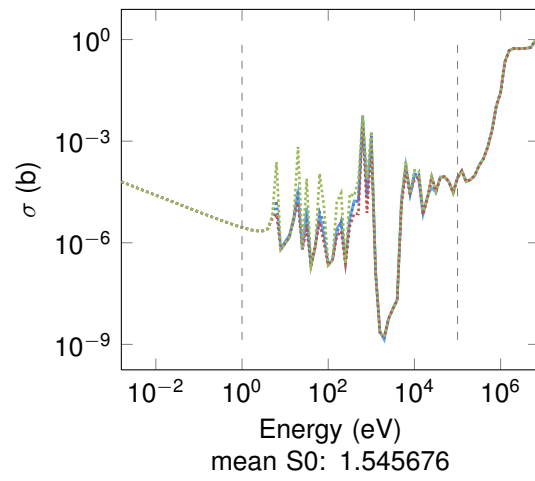
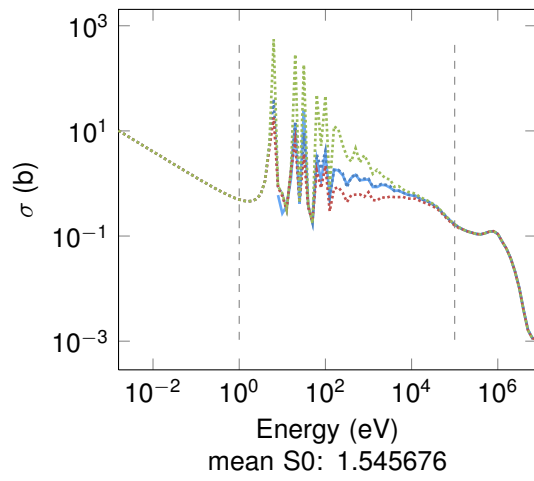
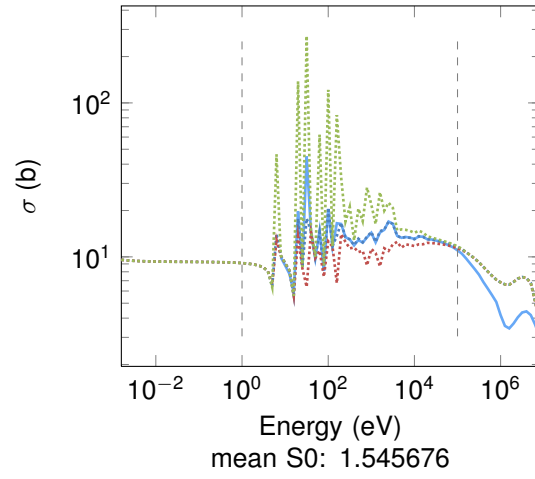
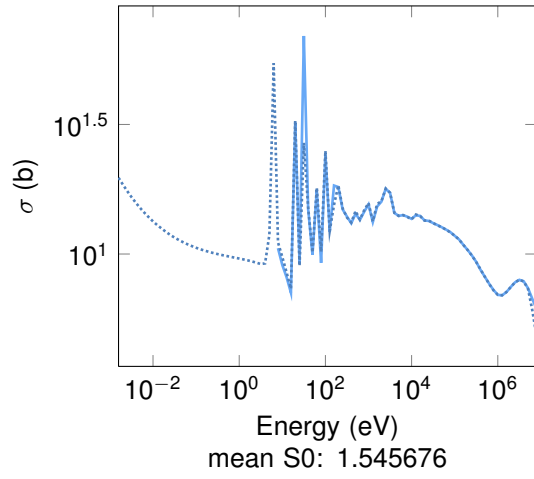


## 2 Cross sections for the UOX fuel cell.

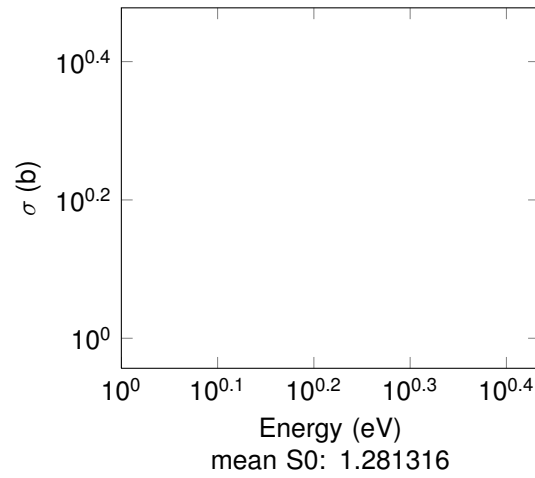
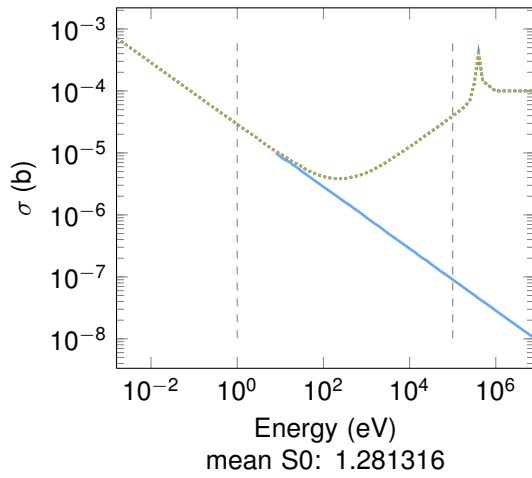
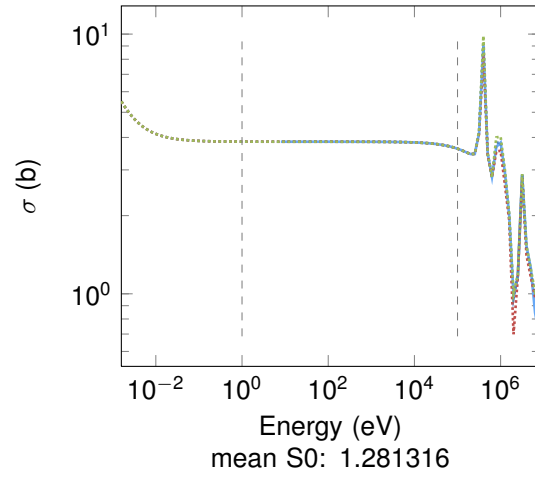
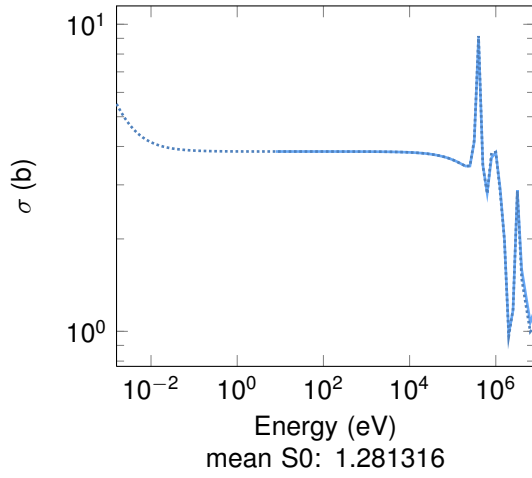
## 2.1 cell UOX fuel nuclide uranium-235



## 2.2 cell UOX fuel nuclide uranium-238

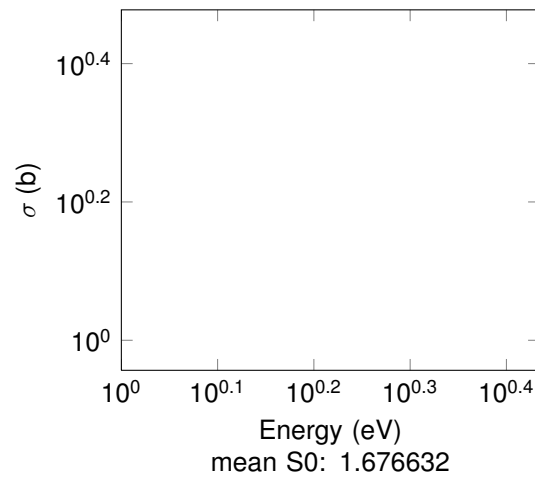
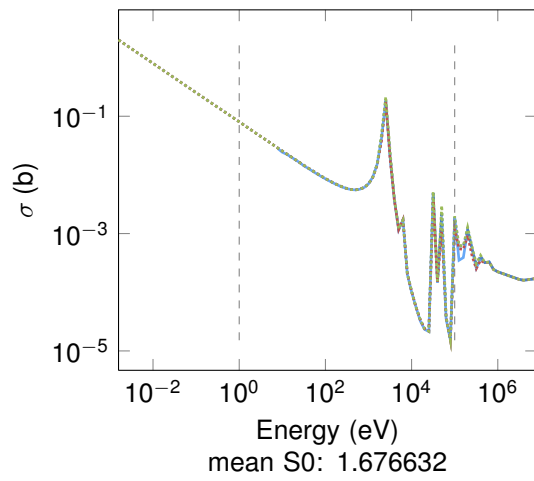
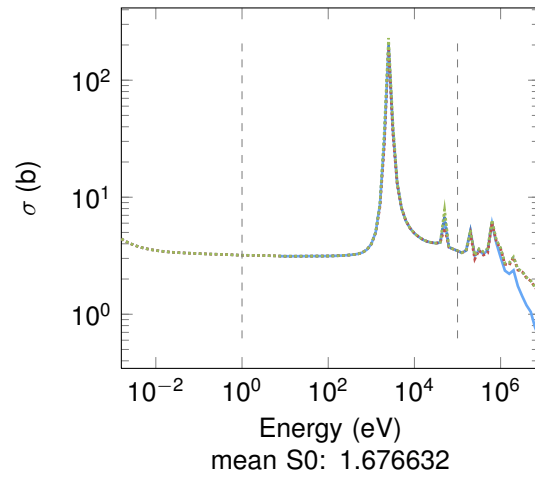
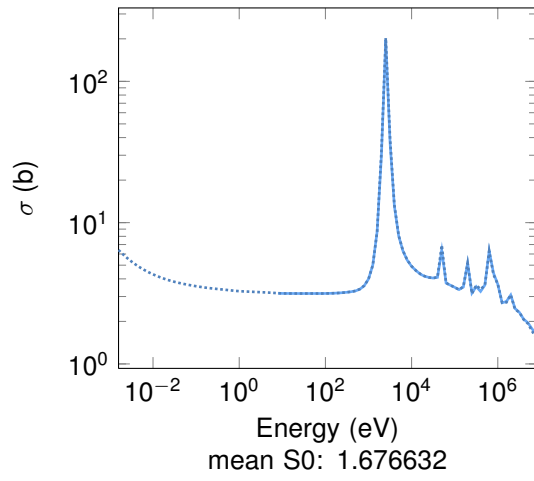


### 2.3 cell UOX fuel nuclide oxygen-16



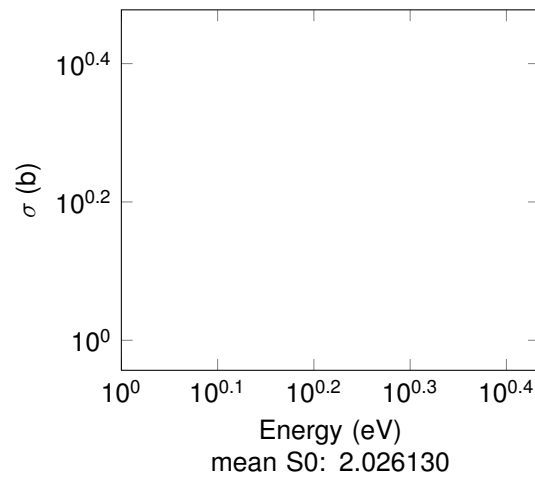
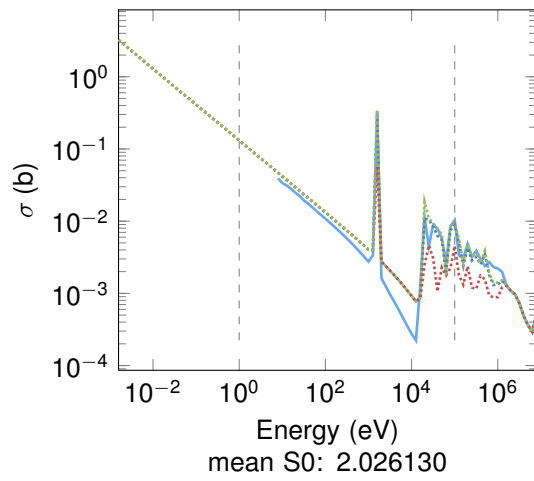
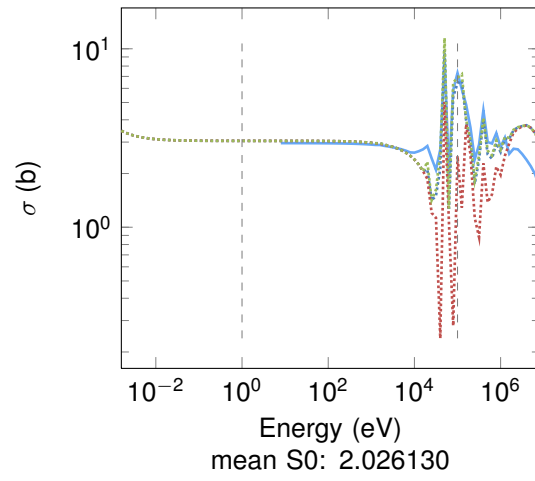
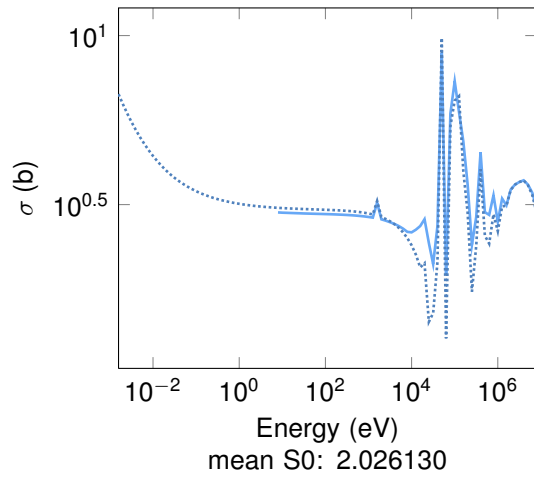
### 3 Cross sections for the UOX coolant cell.

### 3.1 cell UOX coolant nuclide sodium-23

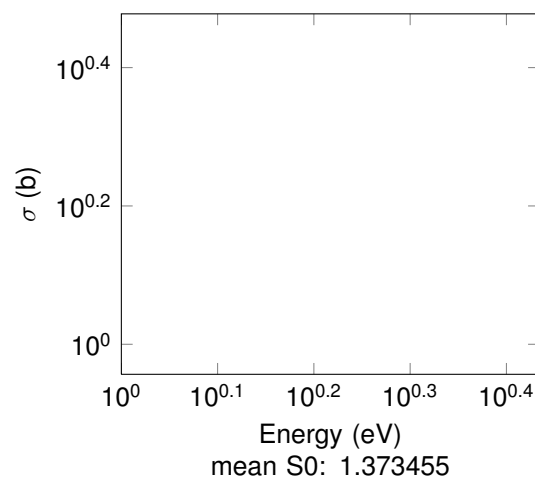
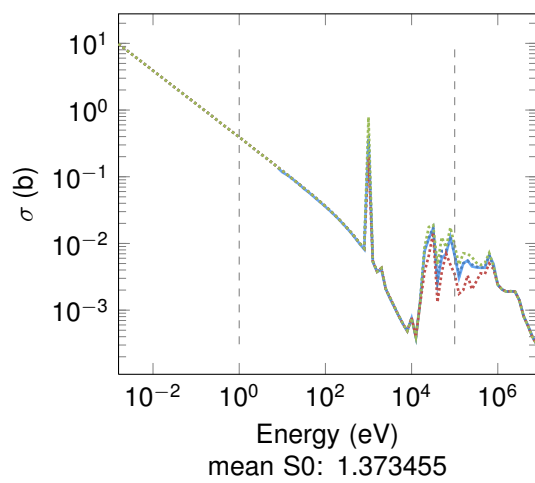
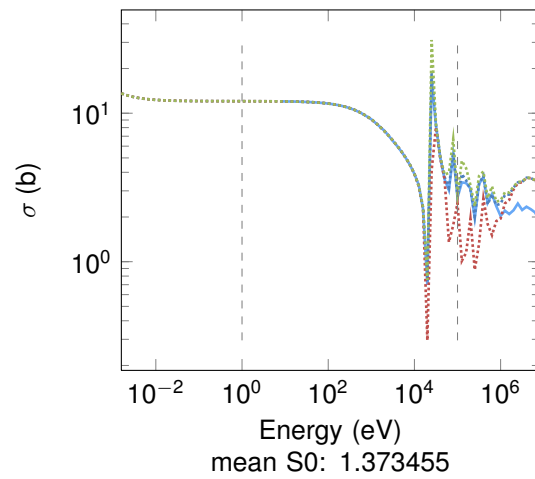
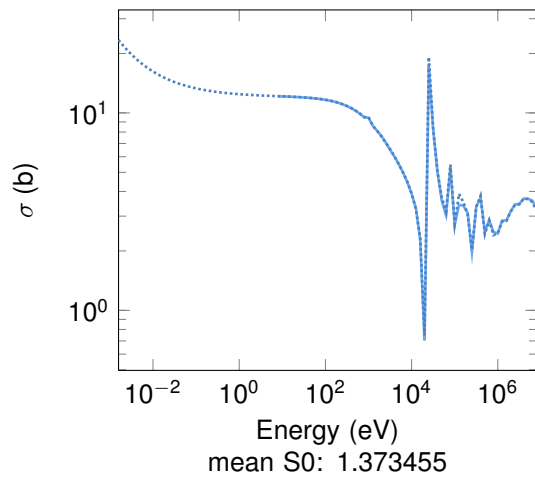




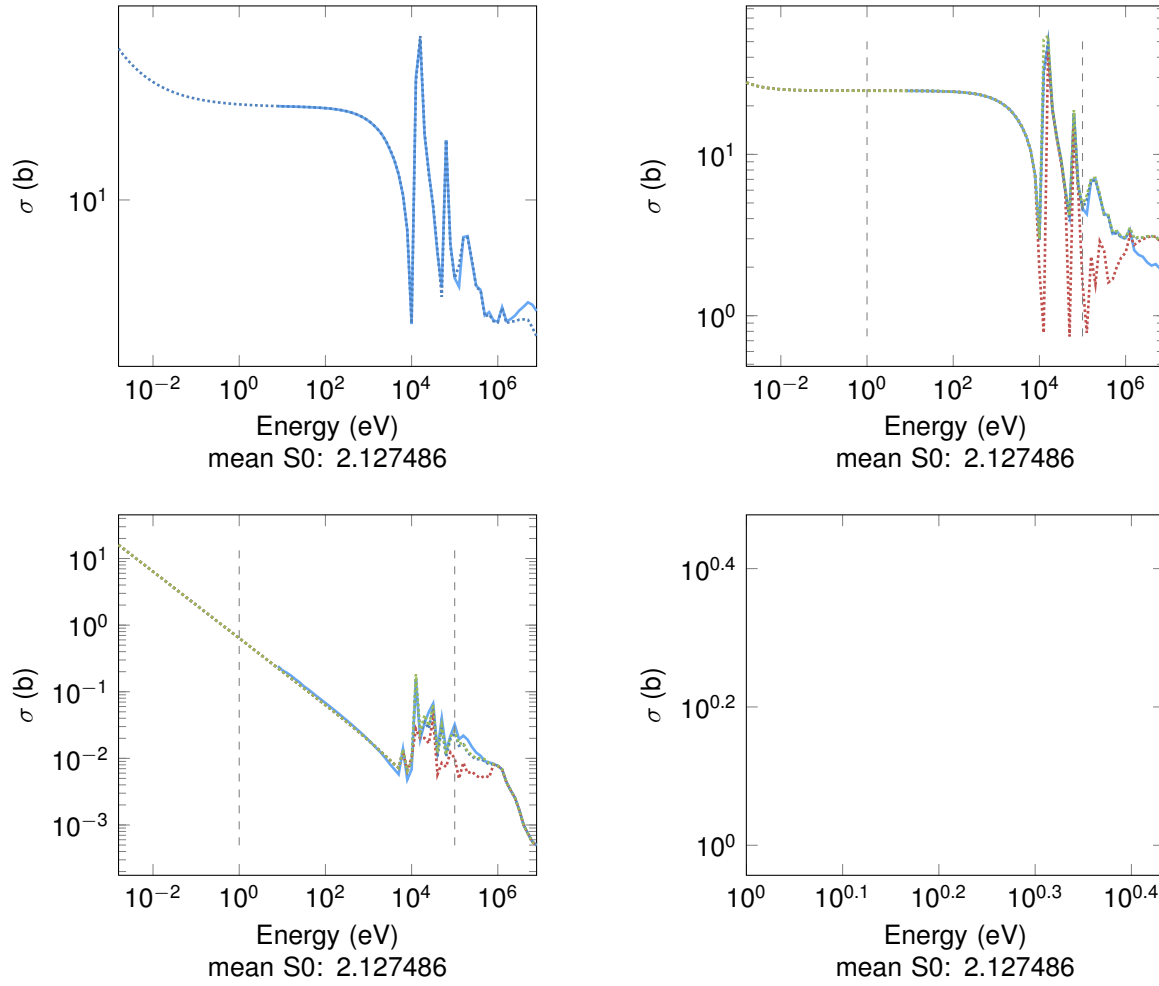
### 3.2 cell UOX coolant nuclide chromium-52



### 3.3 cell UOX coolant nuclide iron-56

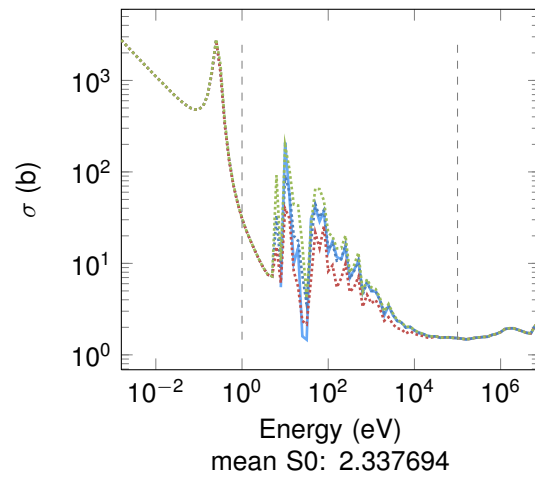
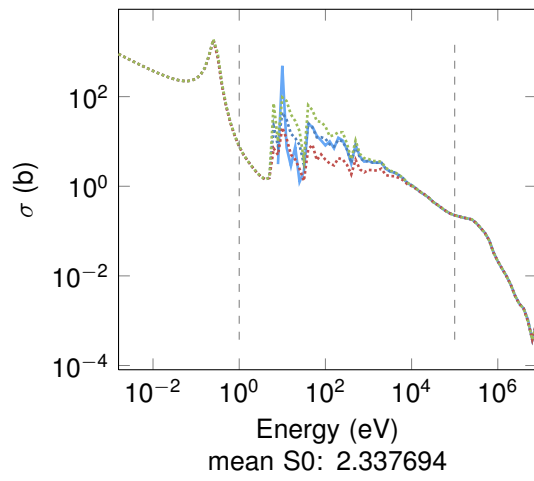
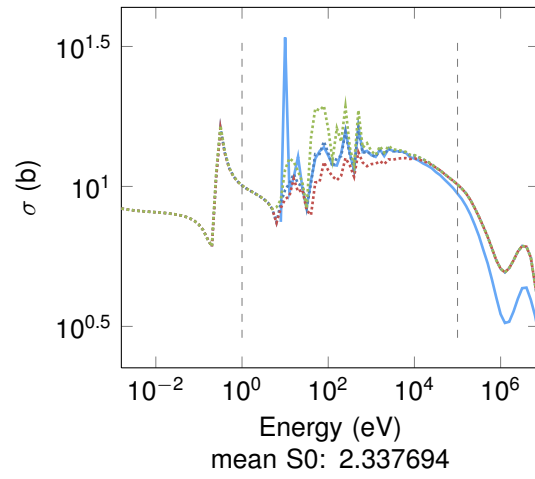
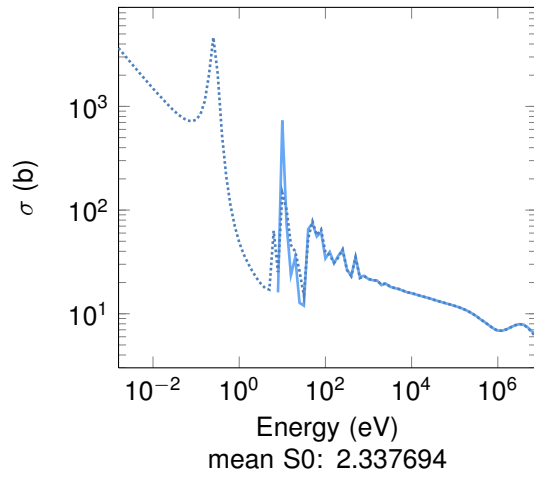


### 3.4 cell UOX coolant nuclide nickel-58

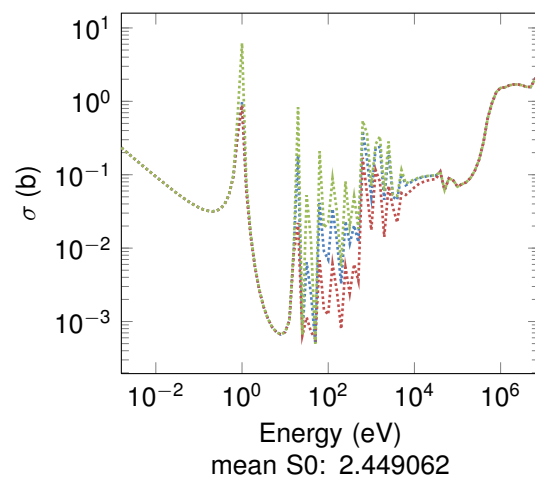
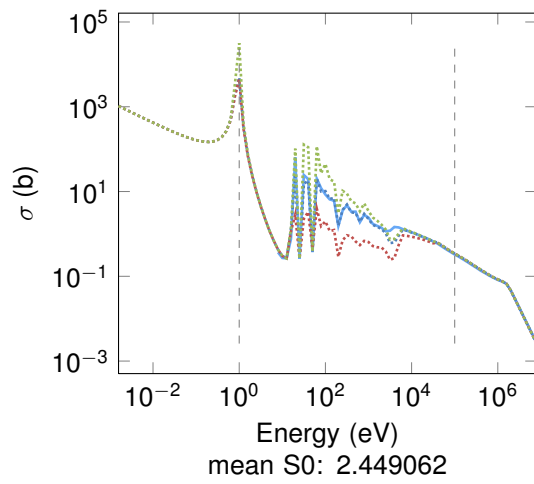
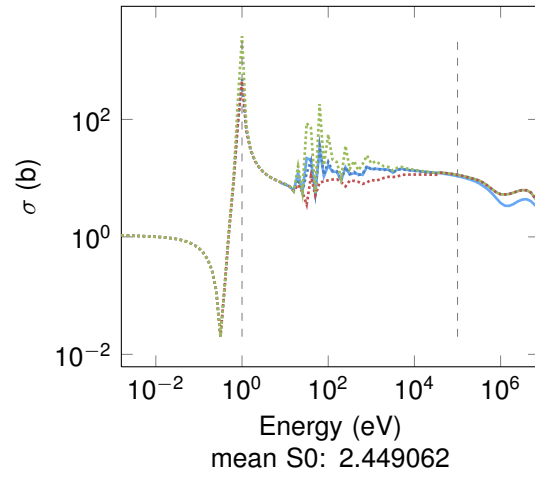
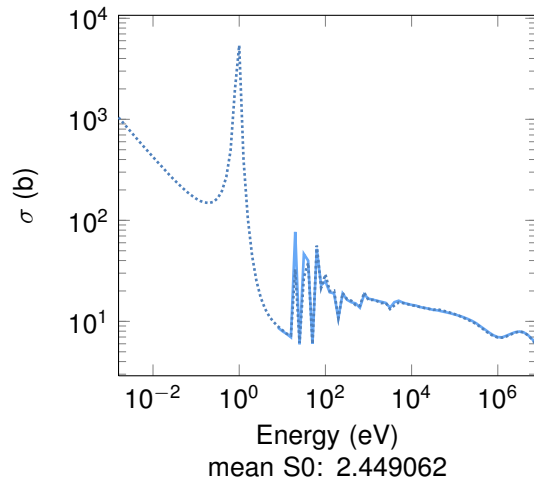


## 4 Cross sections for the $\text{PuO}_2$ fuel cell.

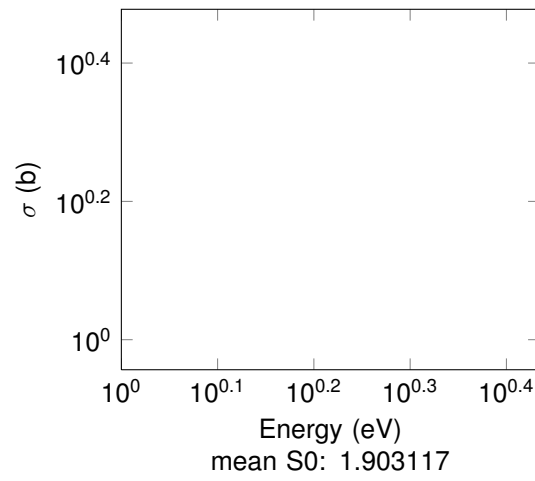
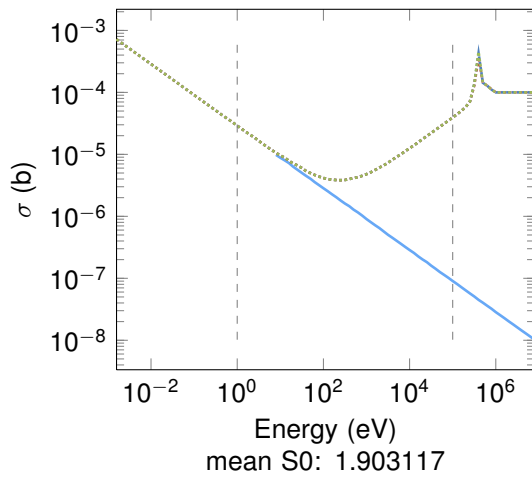
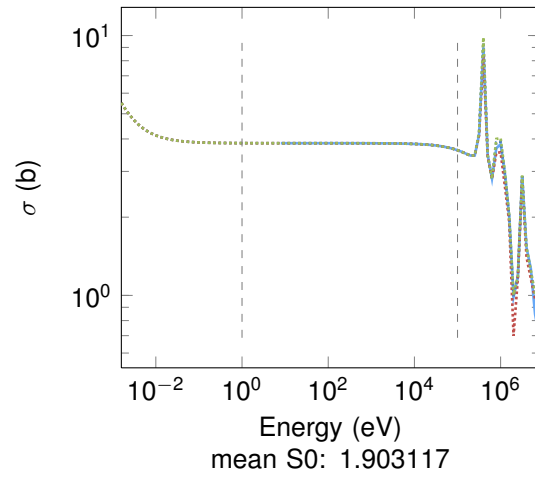
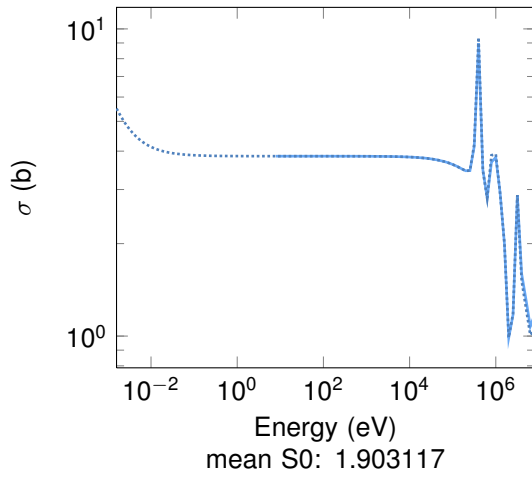
## 4.1 cell PuO<sub>2</sub> fuel nuclide plutonium-239



## 4.2 cell PuO<sub>2</sub> fuel nuclide plutonium-240

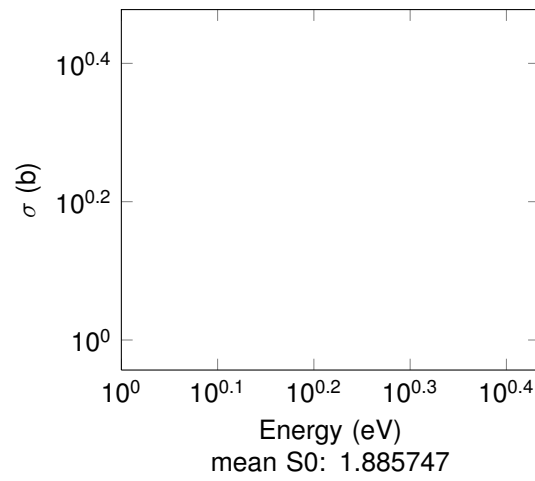
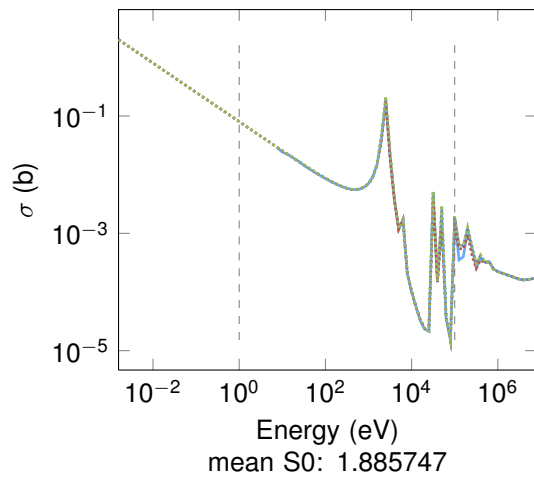
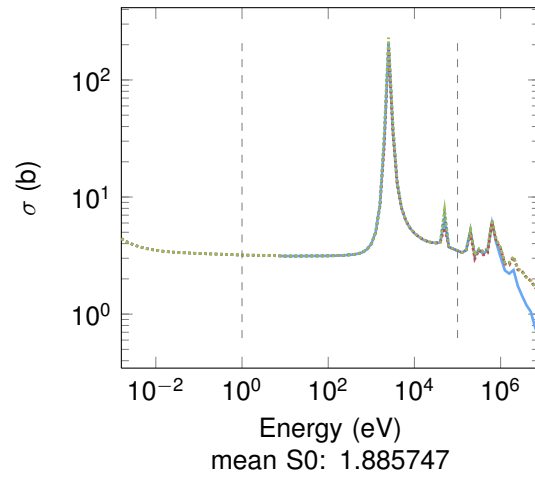
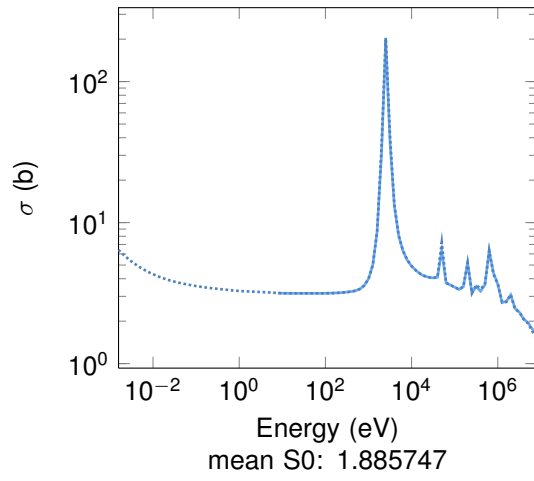


### 4.3 cell $\text{PuO}_2$ fuel nuclide oxygen-16

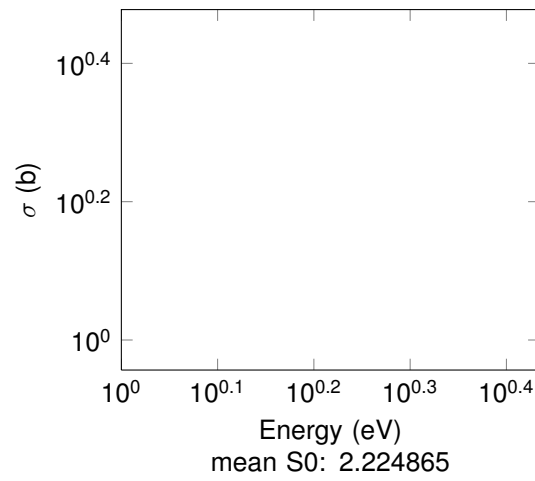
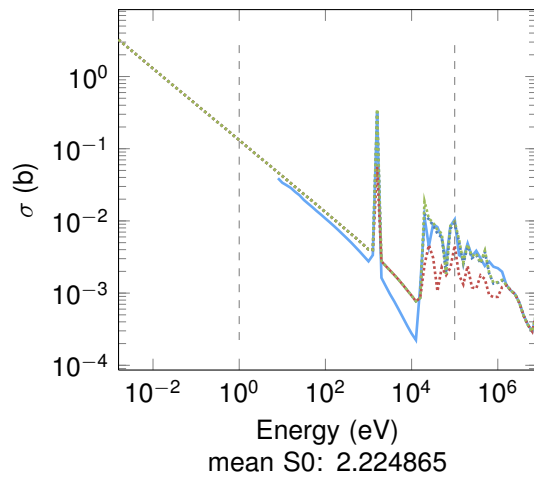
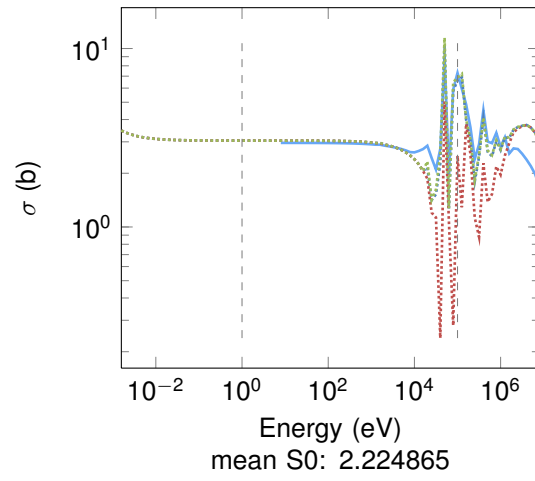
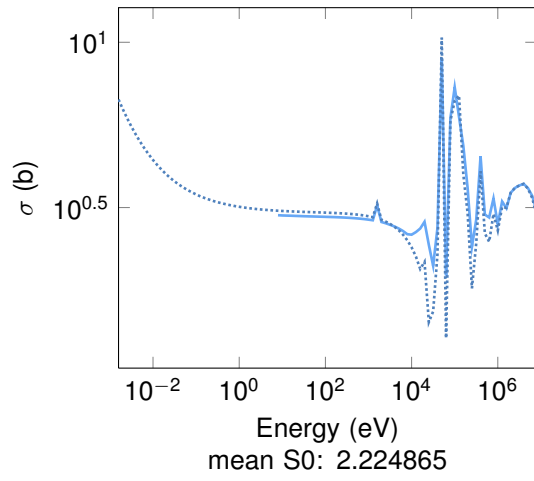


## 5 Cross sections for the $\text{PuO}_2$ coolant cell.

## 5.1 cell $\text{PuO}_2$ coolant nuclide sodium-23

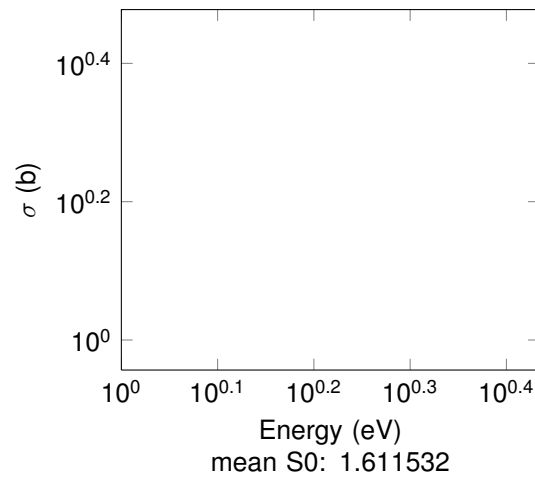
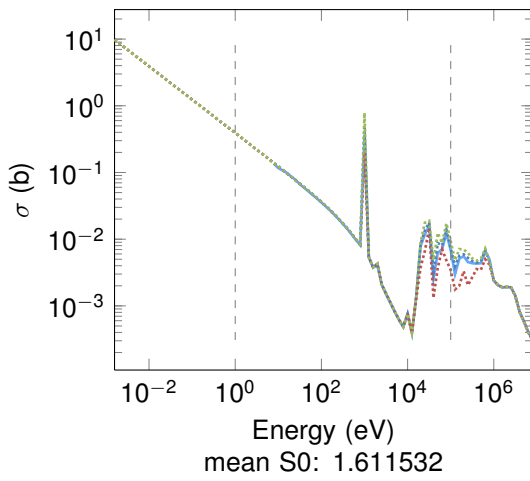
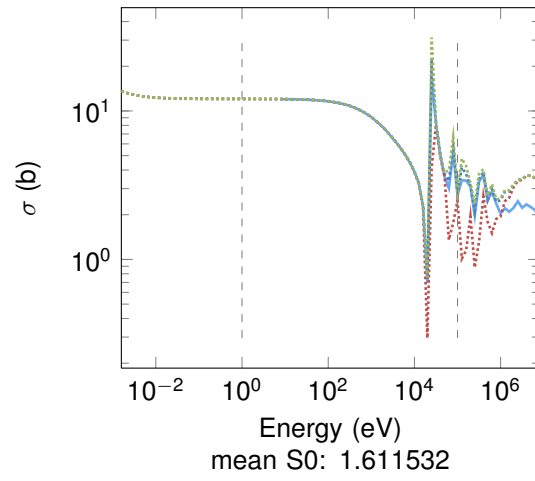
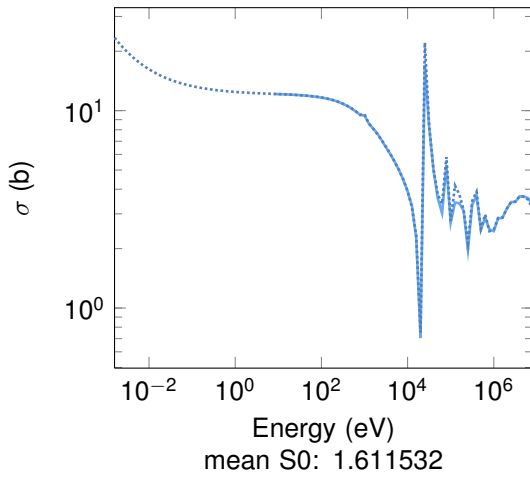


## 5.2 cell $\text{PuO}_2$ coolant nuclide chromium-52





### 5.3 cell $\text{PuO}_2$ coolant nuclide iron-56



## 5.4 cell $\text{PuO}_2$ coolant nuclide nickel-58

