

## Appendix B: Event Probabilities

This appendix contains all the event probabilities for modeled electron interactions between 1 eV and 100,000 eV based on the cross section data available in the literature.

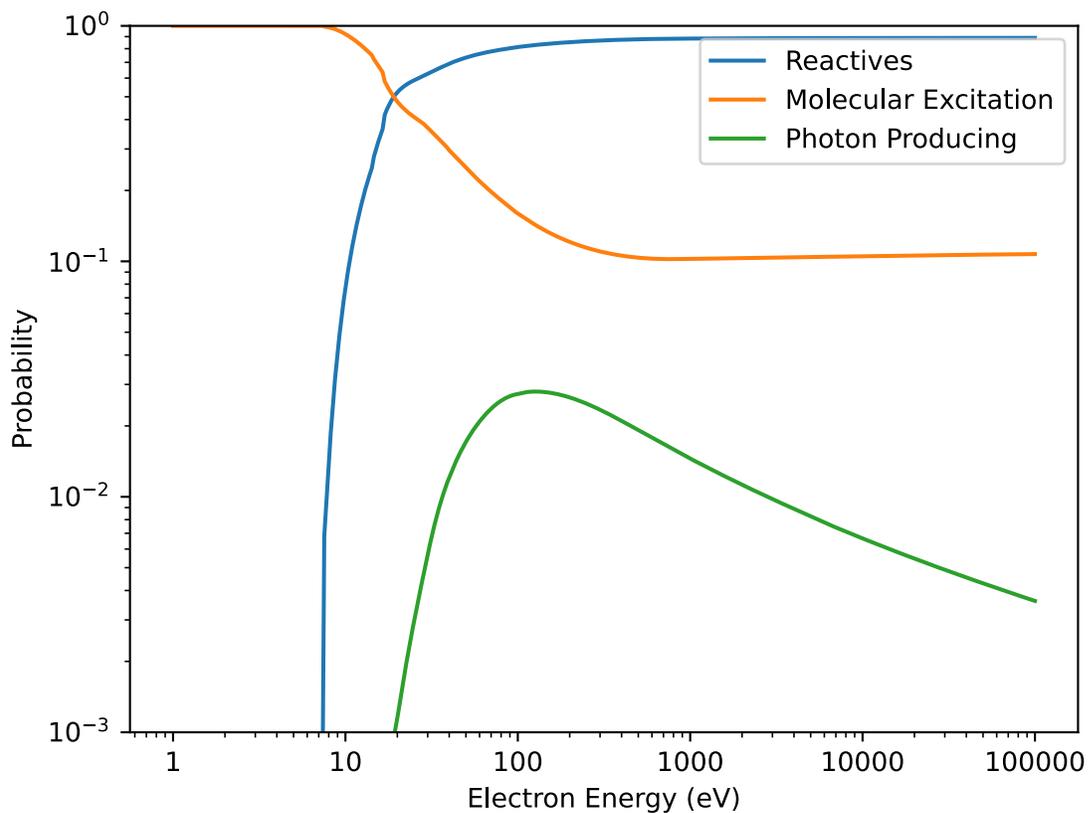


Figure B1: The modeled probabilities for the main event categories of those creating first generation species, increase the kinetic energy of the CH<sub>4</sub> by molecular excitation, and photon emissions.

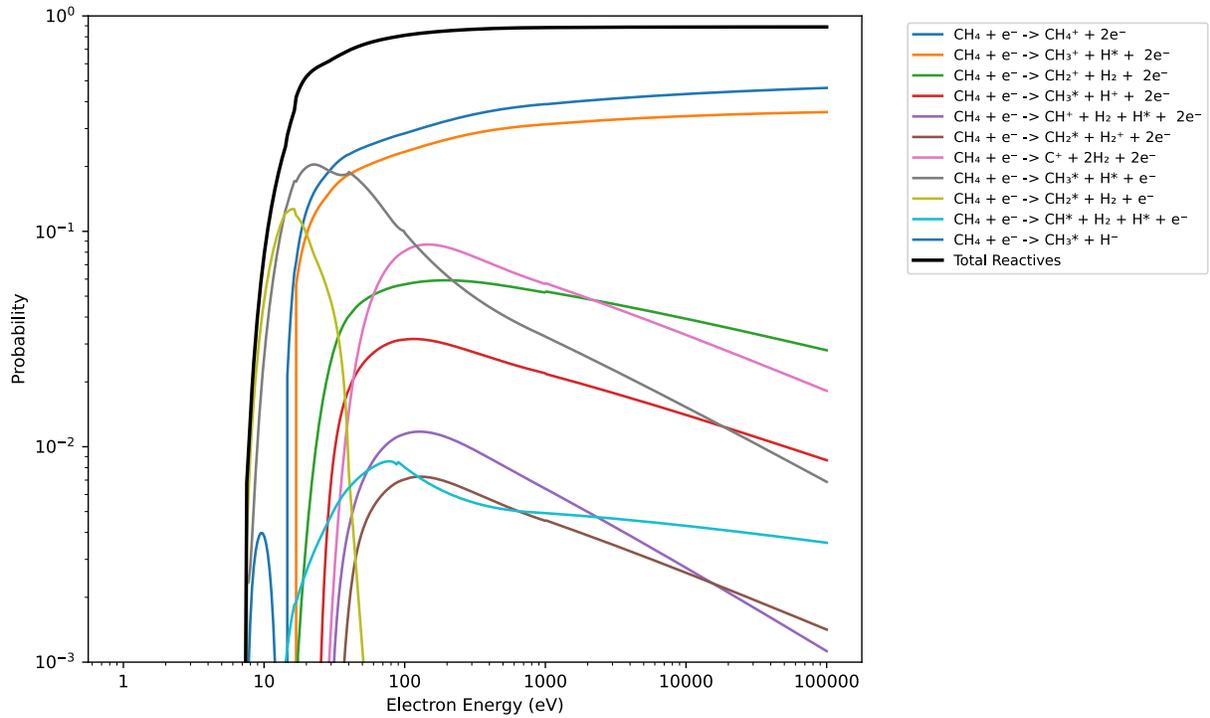


Figure B2: The modeled probabilities for the events that create first generation species

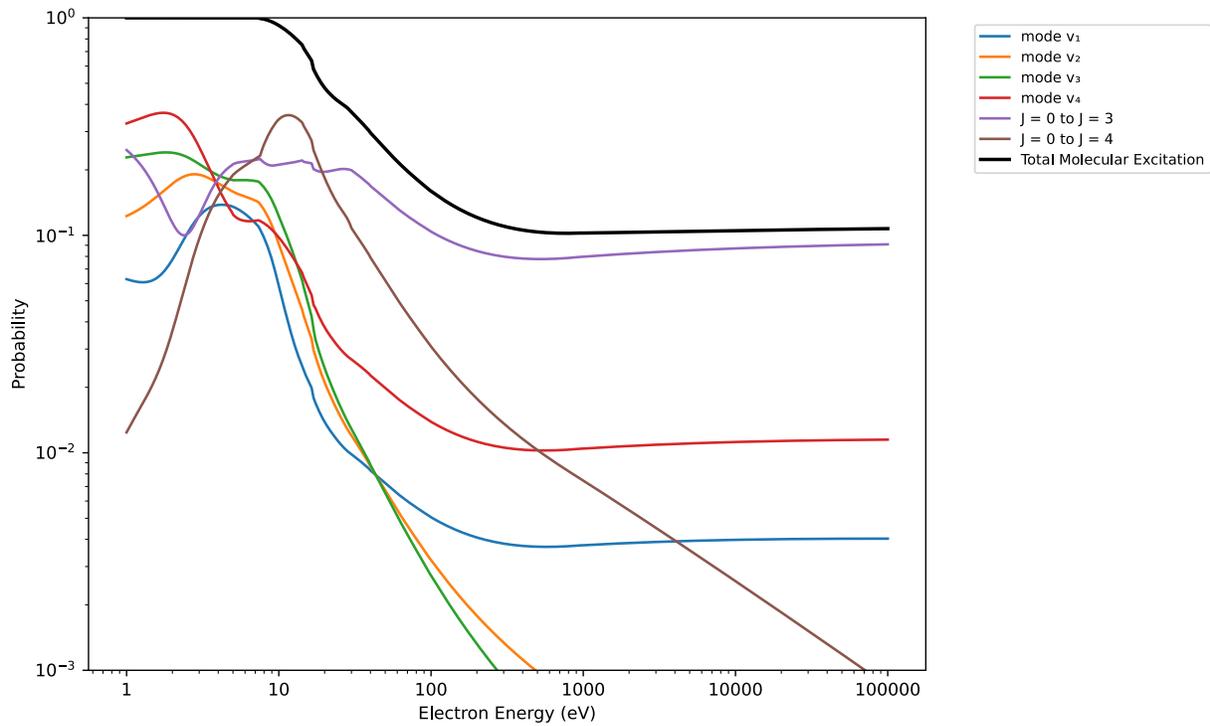


Figure B3: The modeled probabilities for the events causing molecular excitation

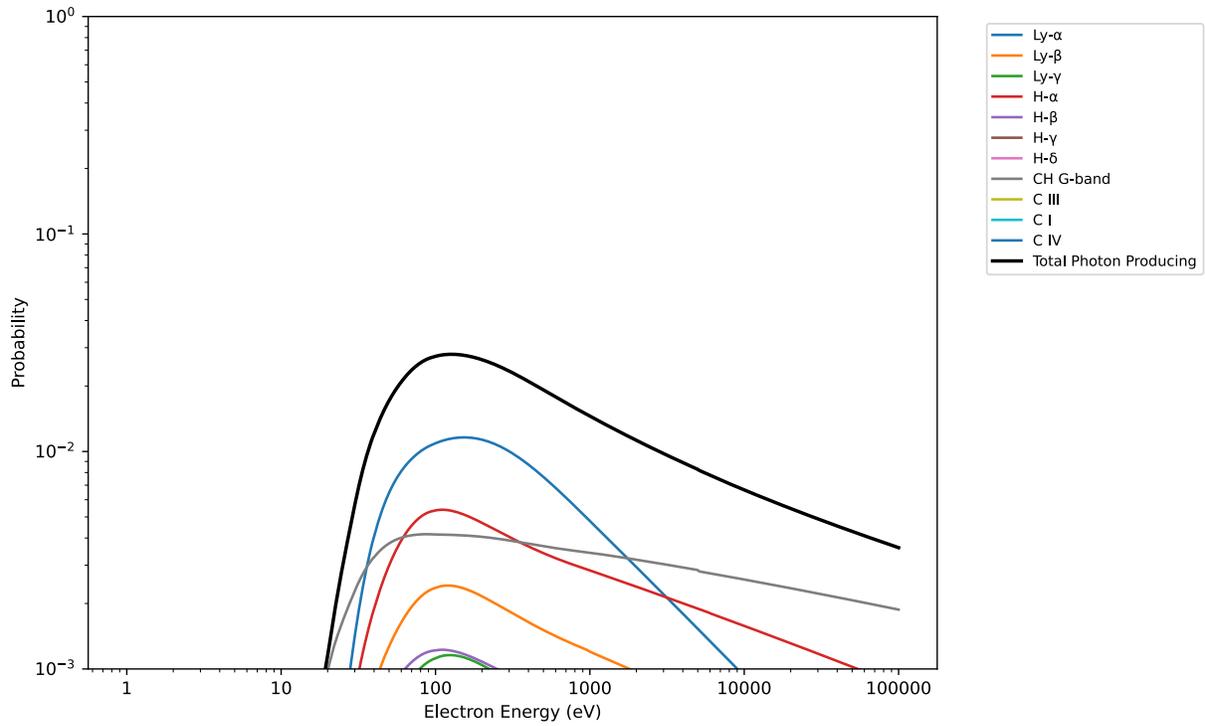


Figure B4: The modeled probabilities for the events that create photon emissions

Below are the separate probability figures for the 28 events that were modeled.

