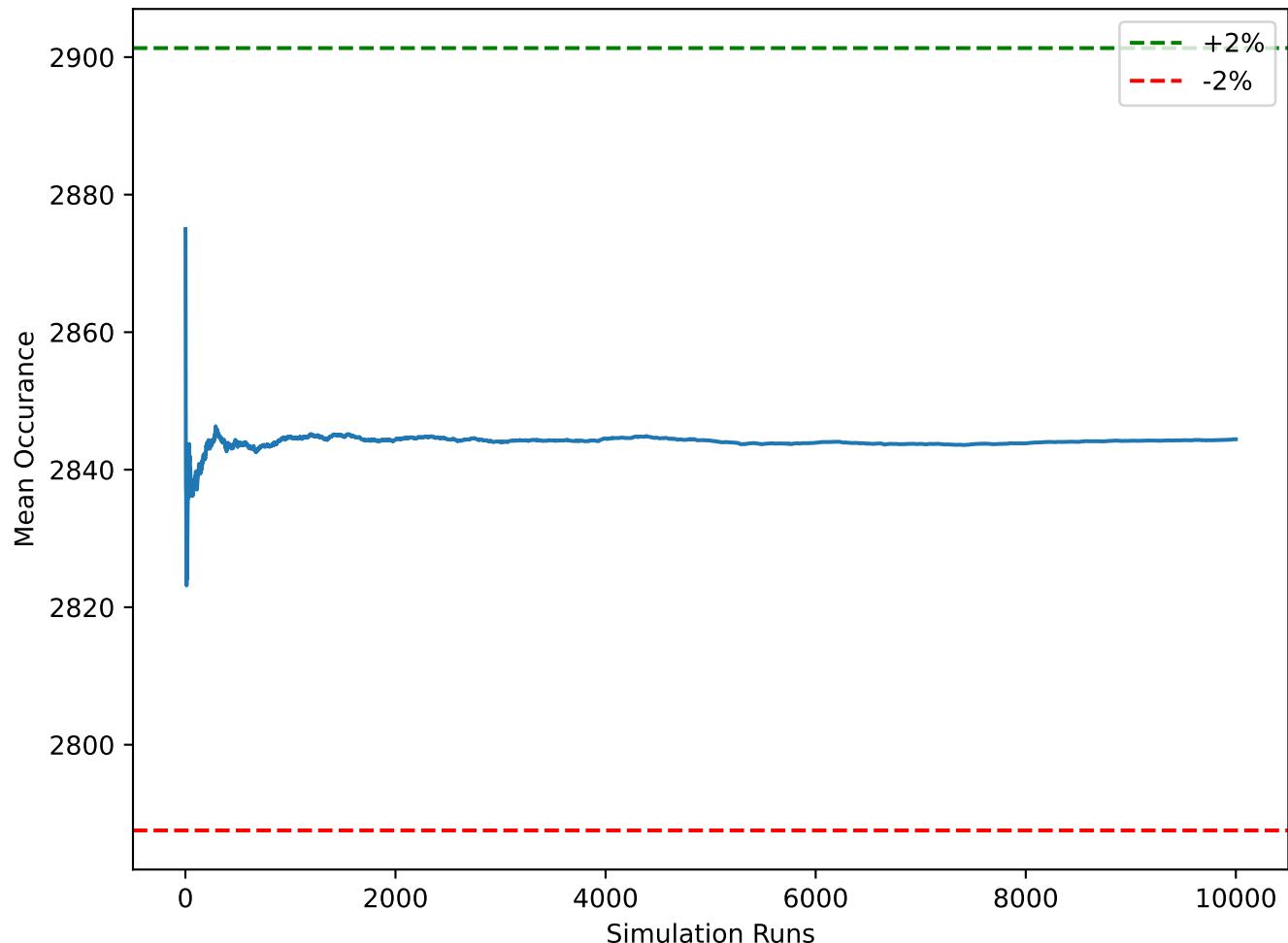
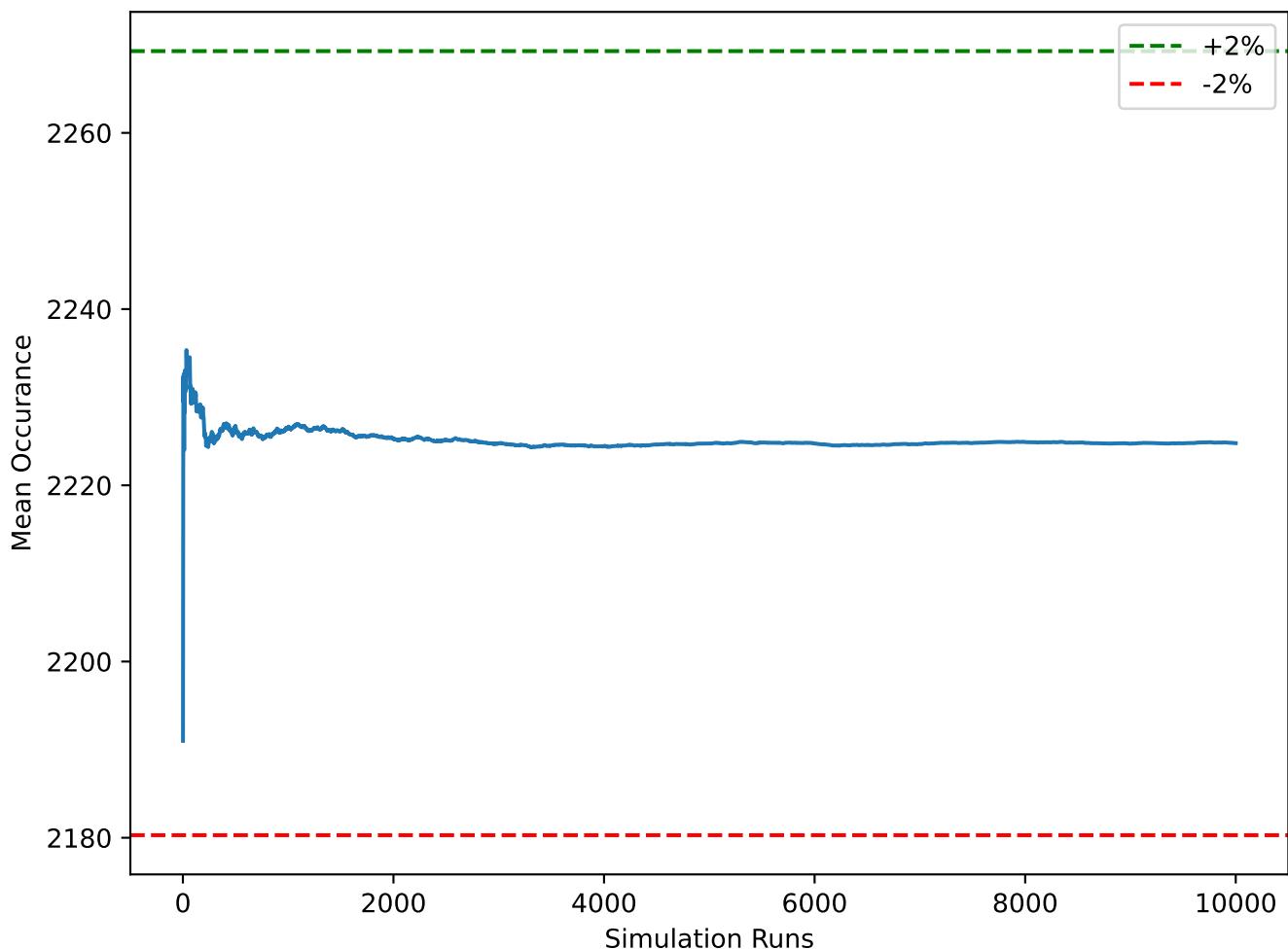


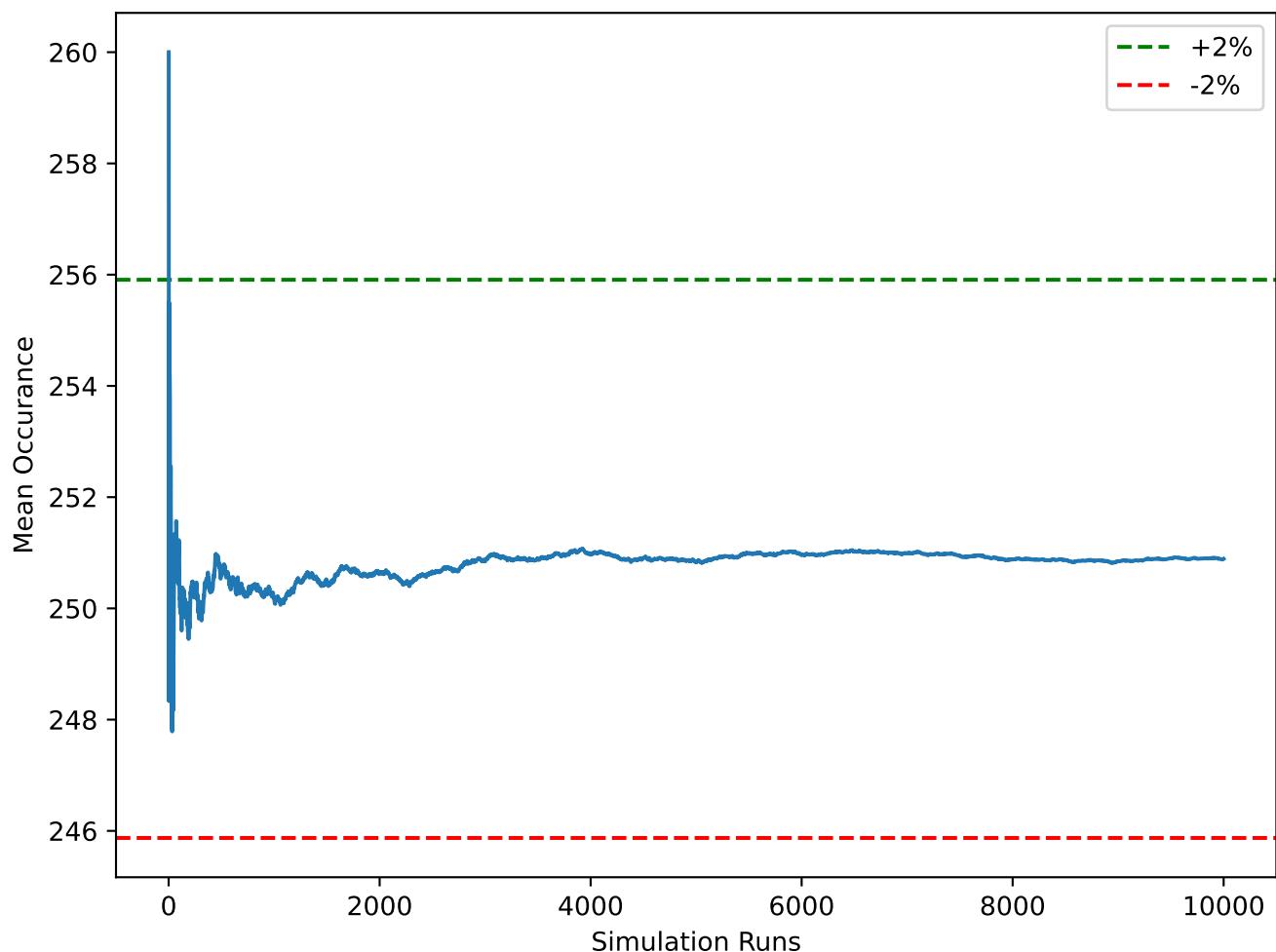
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{CH}_4^+ + 2\text{e}^-$ Mean Occurance vs Simulations Ran



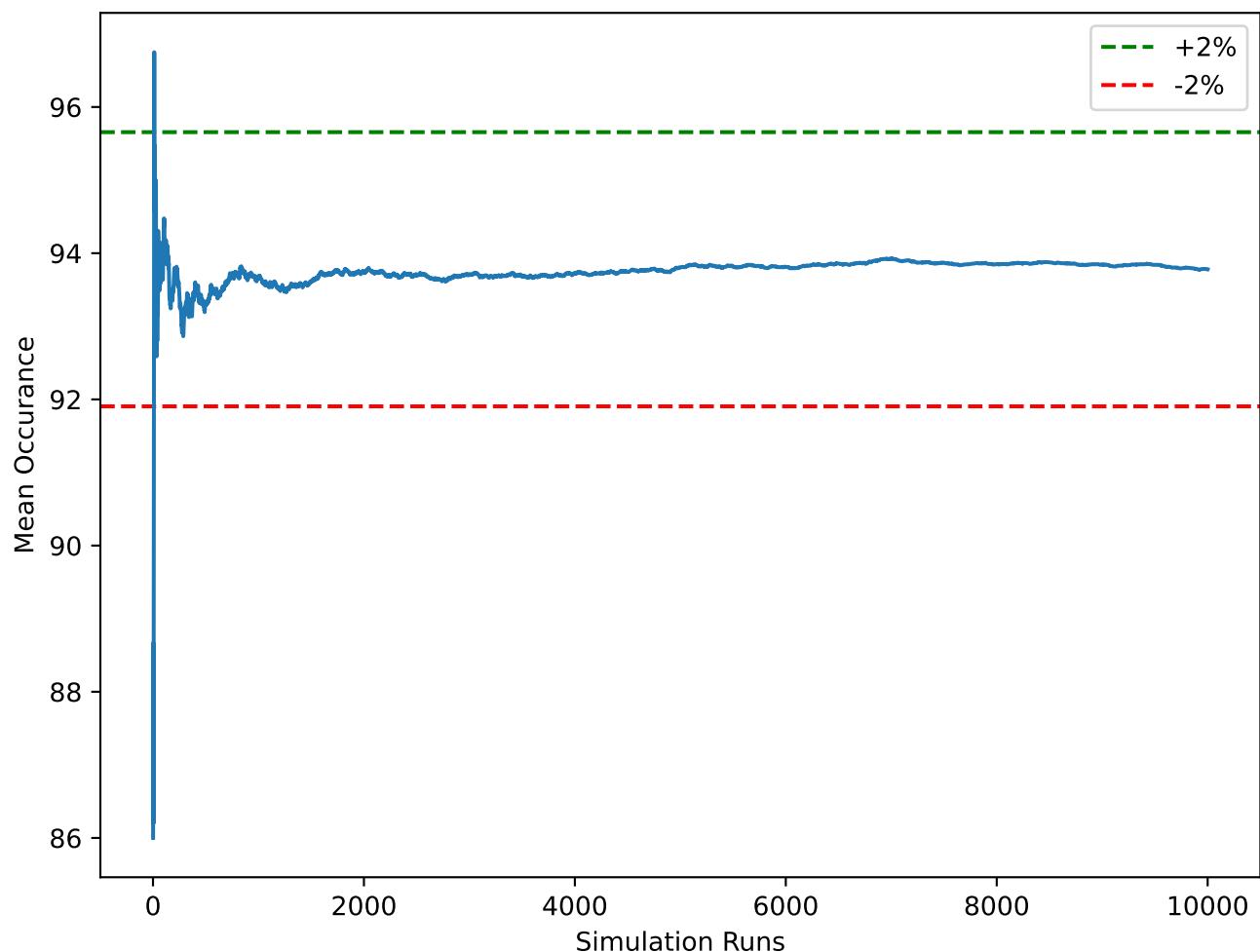
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{CH}_3^+ + \text{H}^* + 2\text{e}^-$ Mean Occurrence vs Simulations Rate



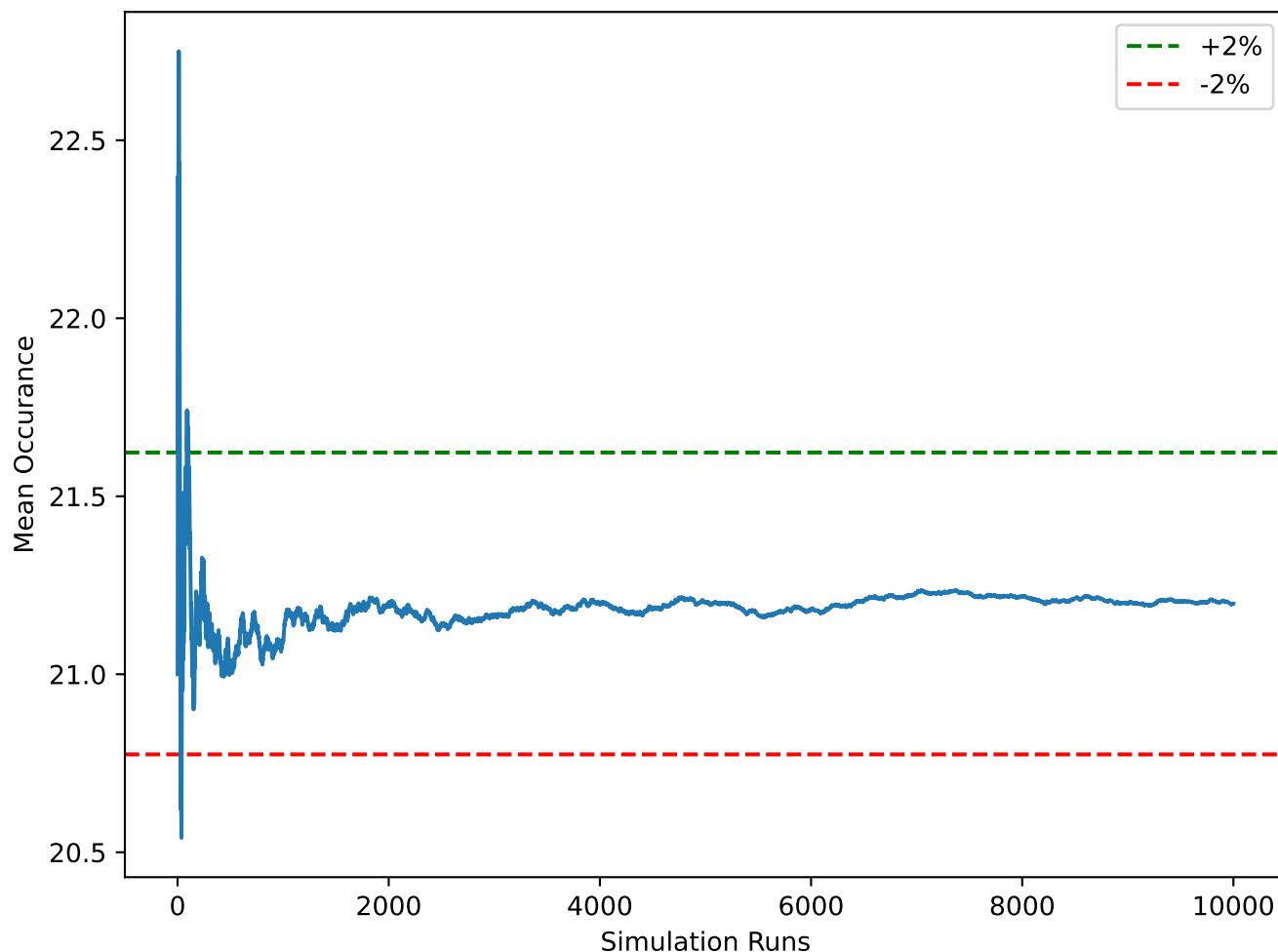
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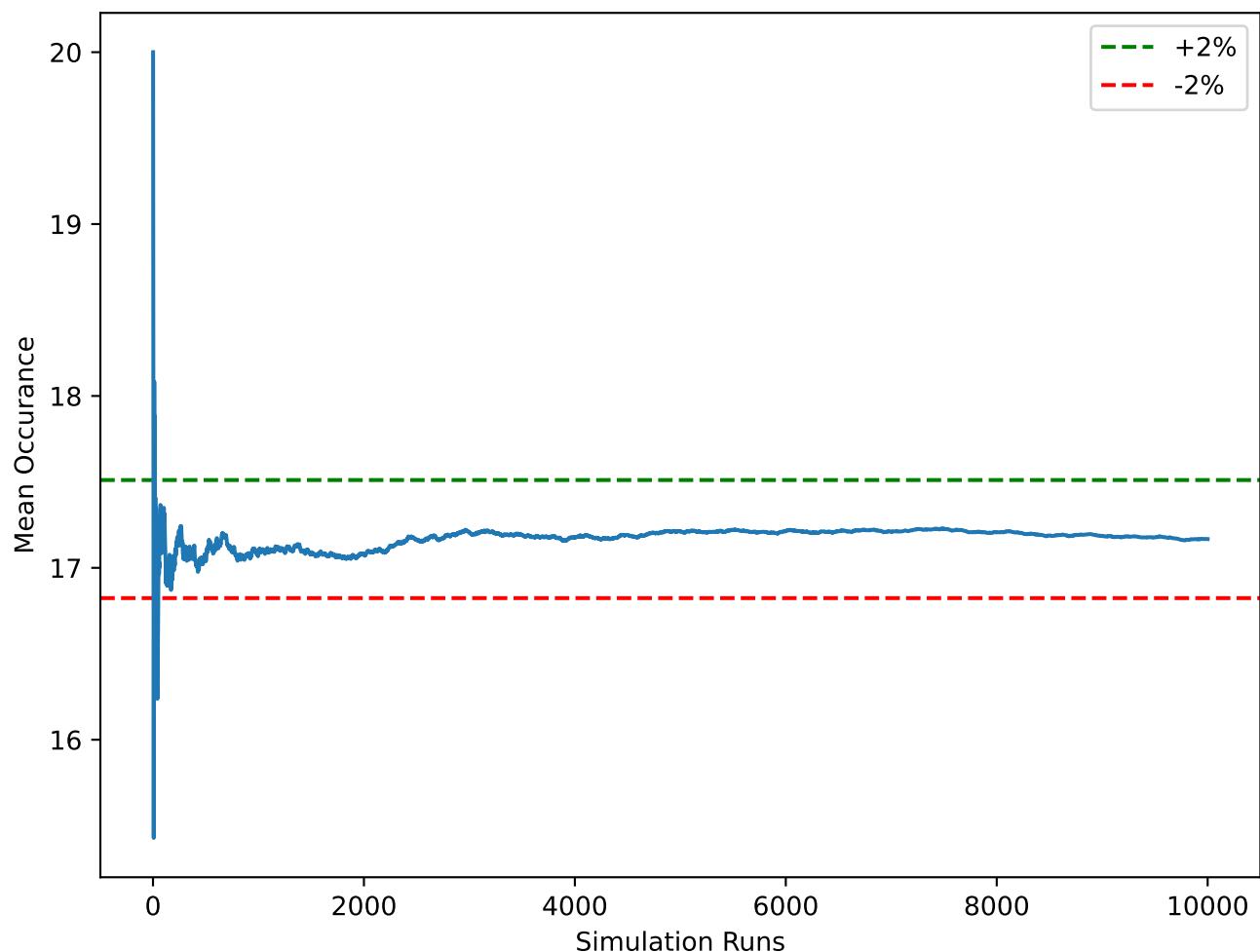
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{CH}_3^* + \text{H}^+ + 2\text{e}^-$ Mean Occurrence vs Simulations Rate



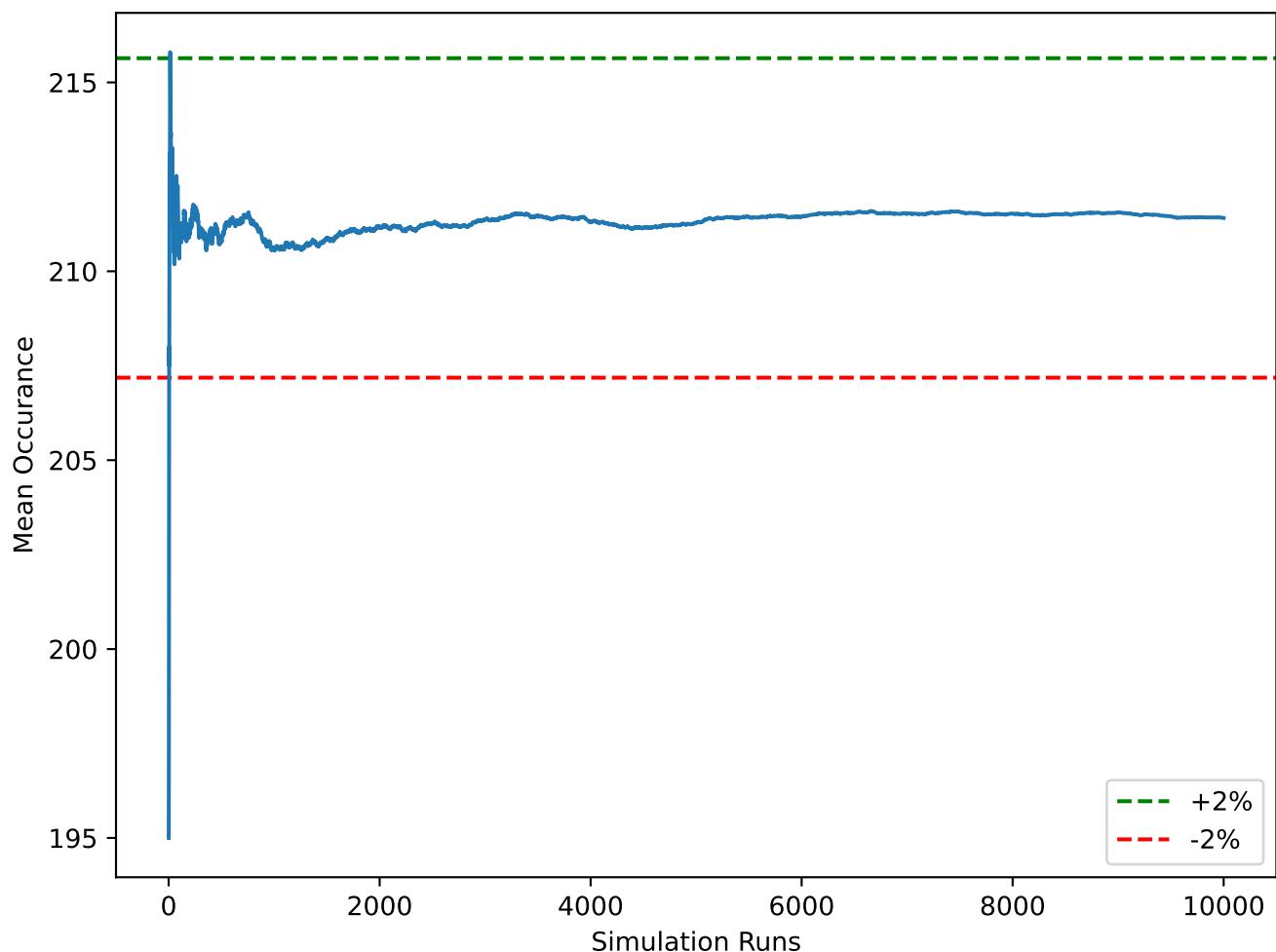
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{CH}^+ + \text{H}_2 + \text{H}^* + 2\text{e}^-$ Mean Occurance vs Simulations



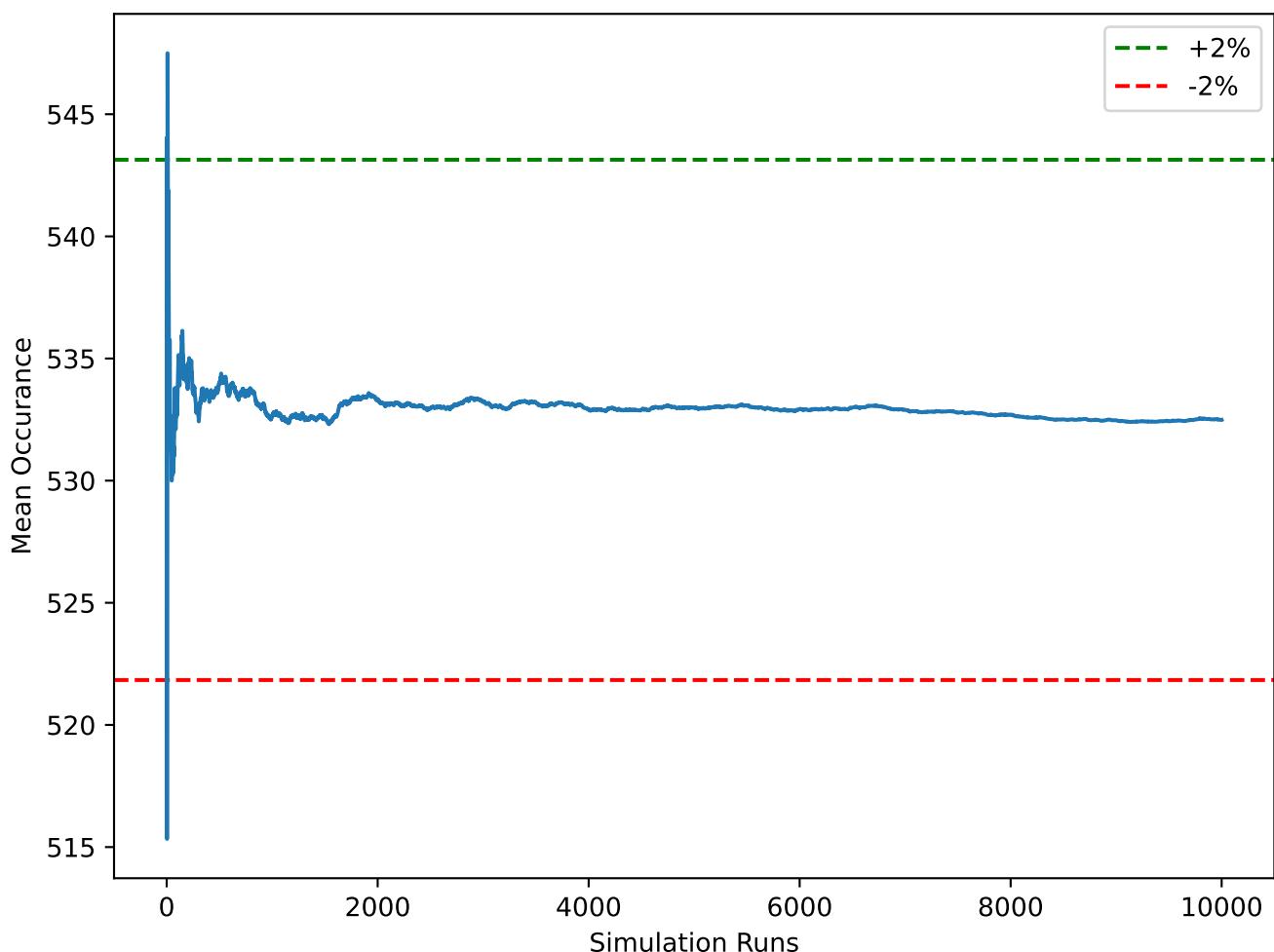
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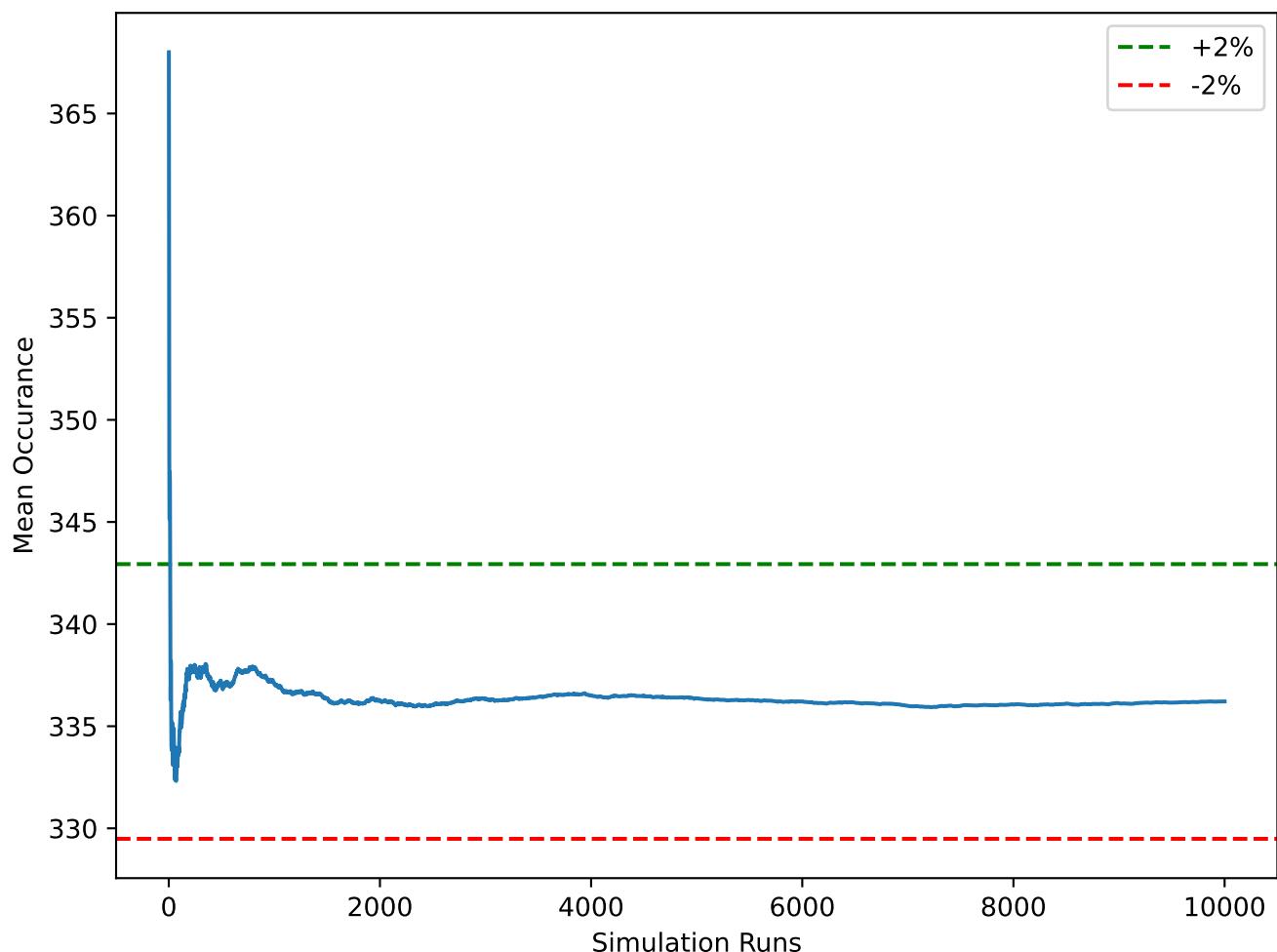
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{C}^+ + 2\text{H}_2 + 2\text{e}^-$ Mean Occurrence vs Simulations Runs



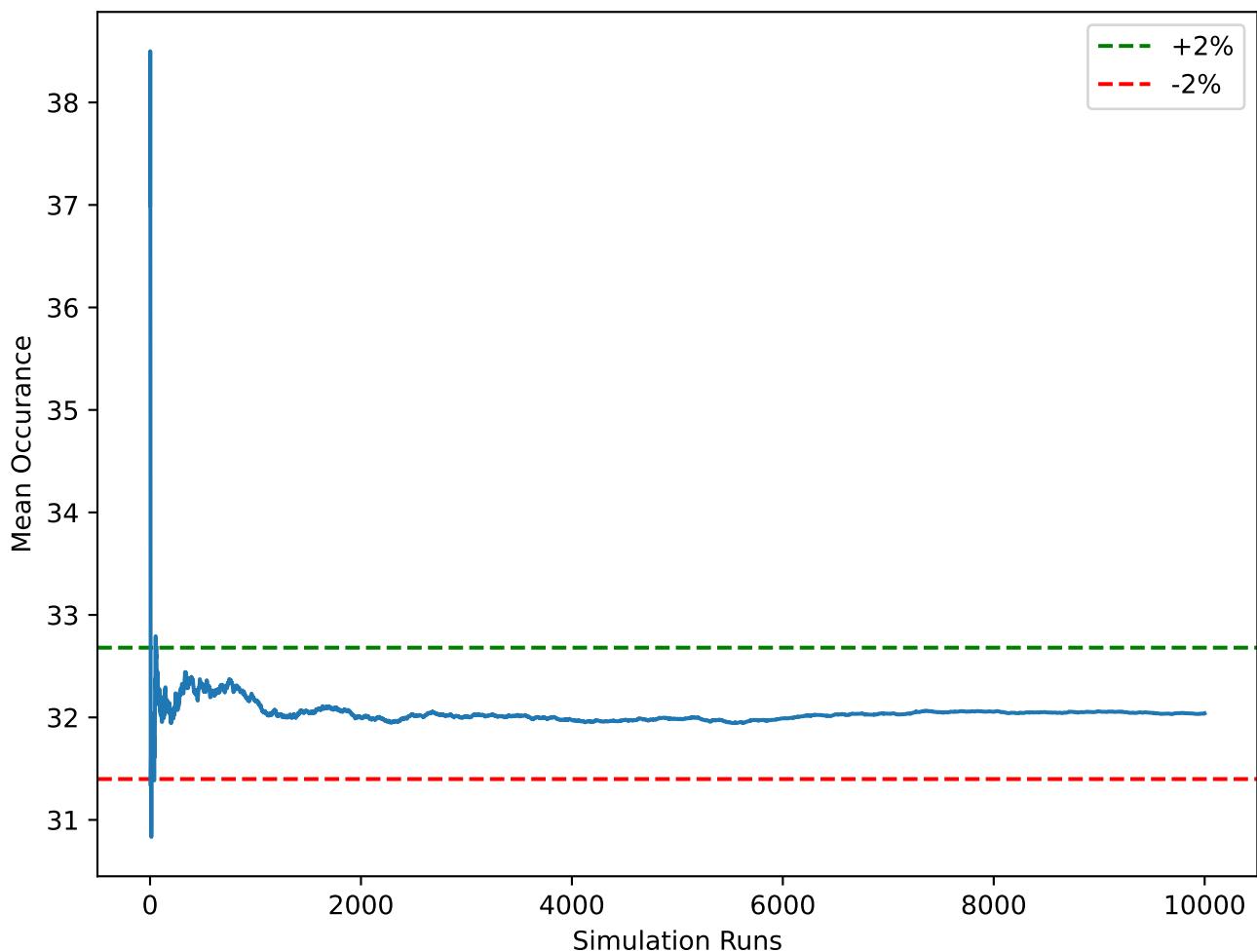
Initial Electron at 100keV For $\text{CH}_4 + e^- \rightarrow \text{CH}_3^* + \text{H}^* + e^-$ Mean Occurrence vs Simulations Runs



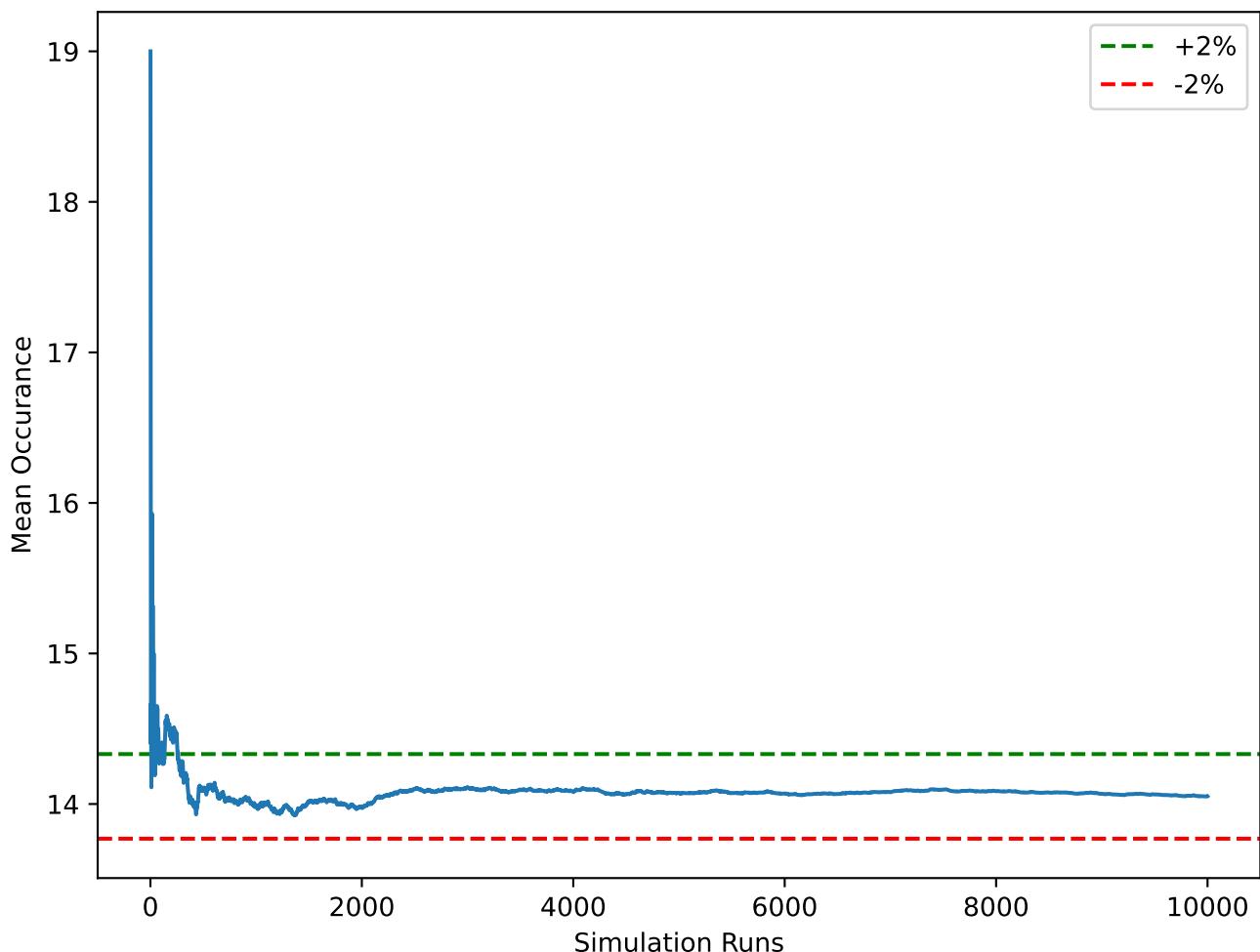
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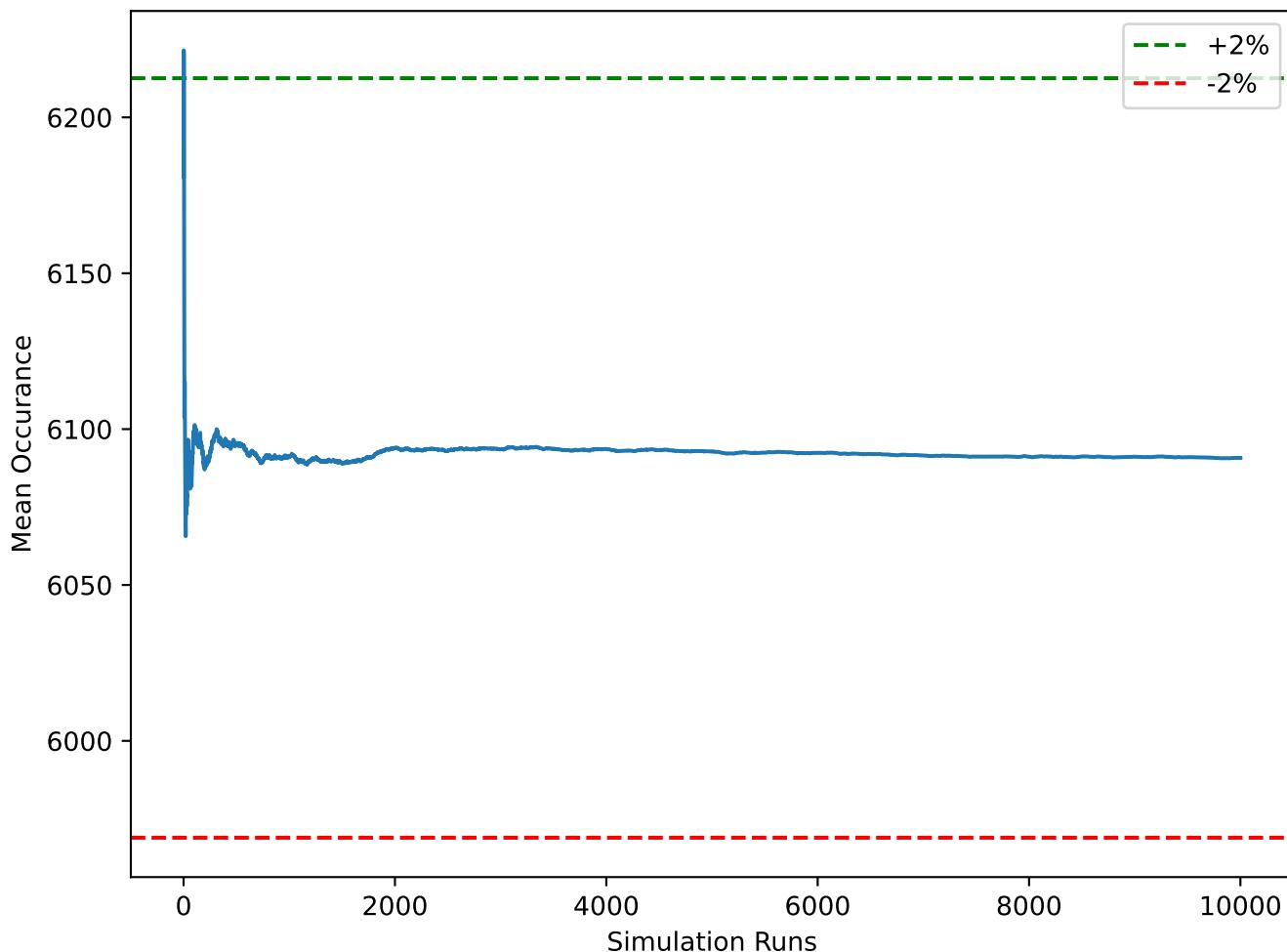
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{CH}^* + \text{H}_2 + \text{H}^* + \text{e}^-$ Mean Occurrence vs Simulations Runs



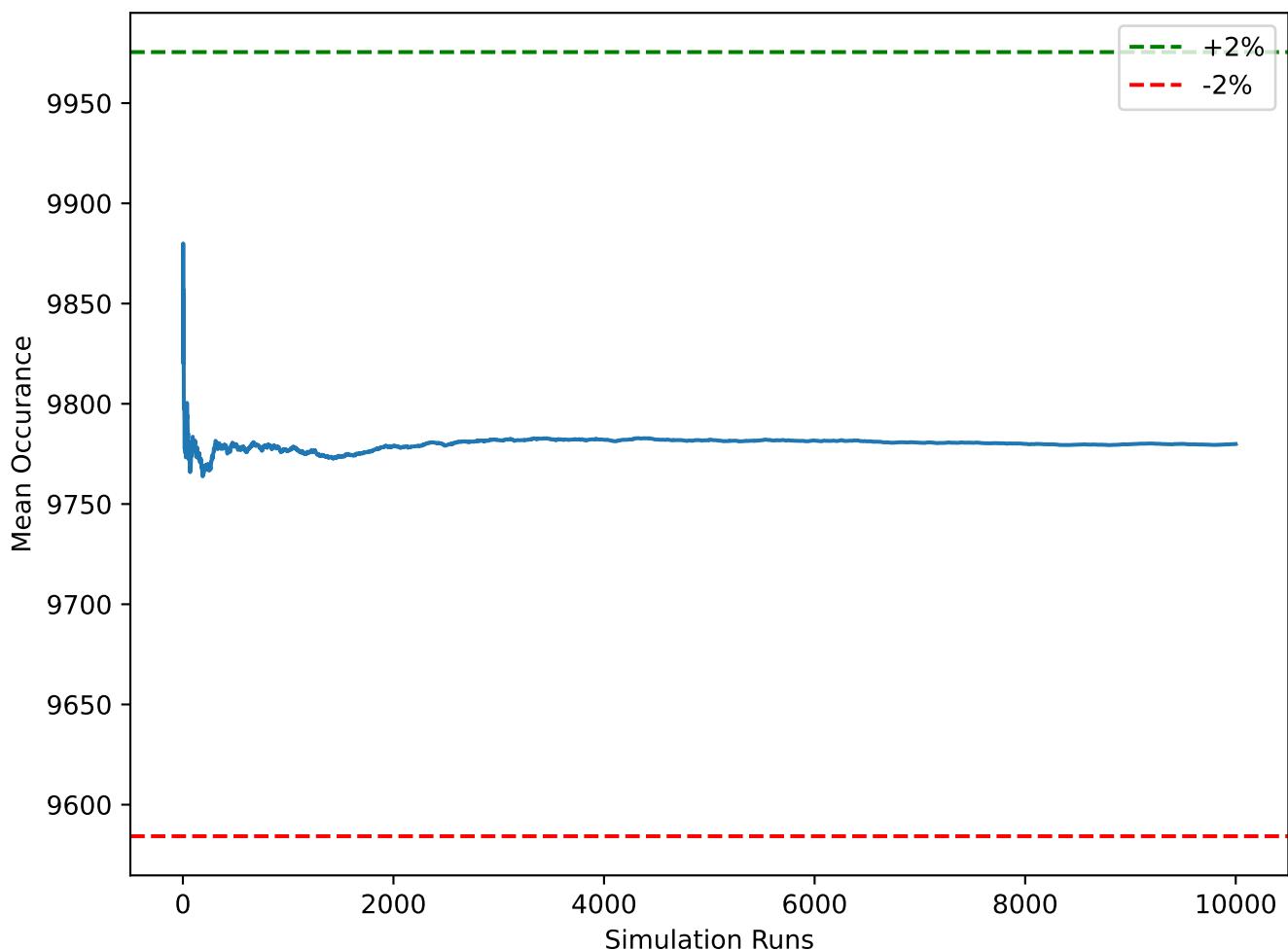
Initial Electron at 100keV For $\text{CH}_4 + \text{e}^- \rightarrow \text{CH}_3^* + \text{H}^-$ Mean Occurance vs Simulations Ran



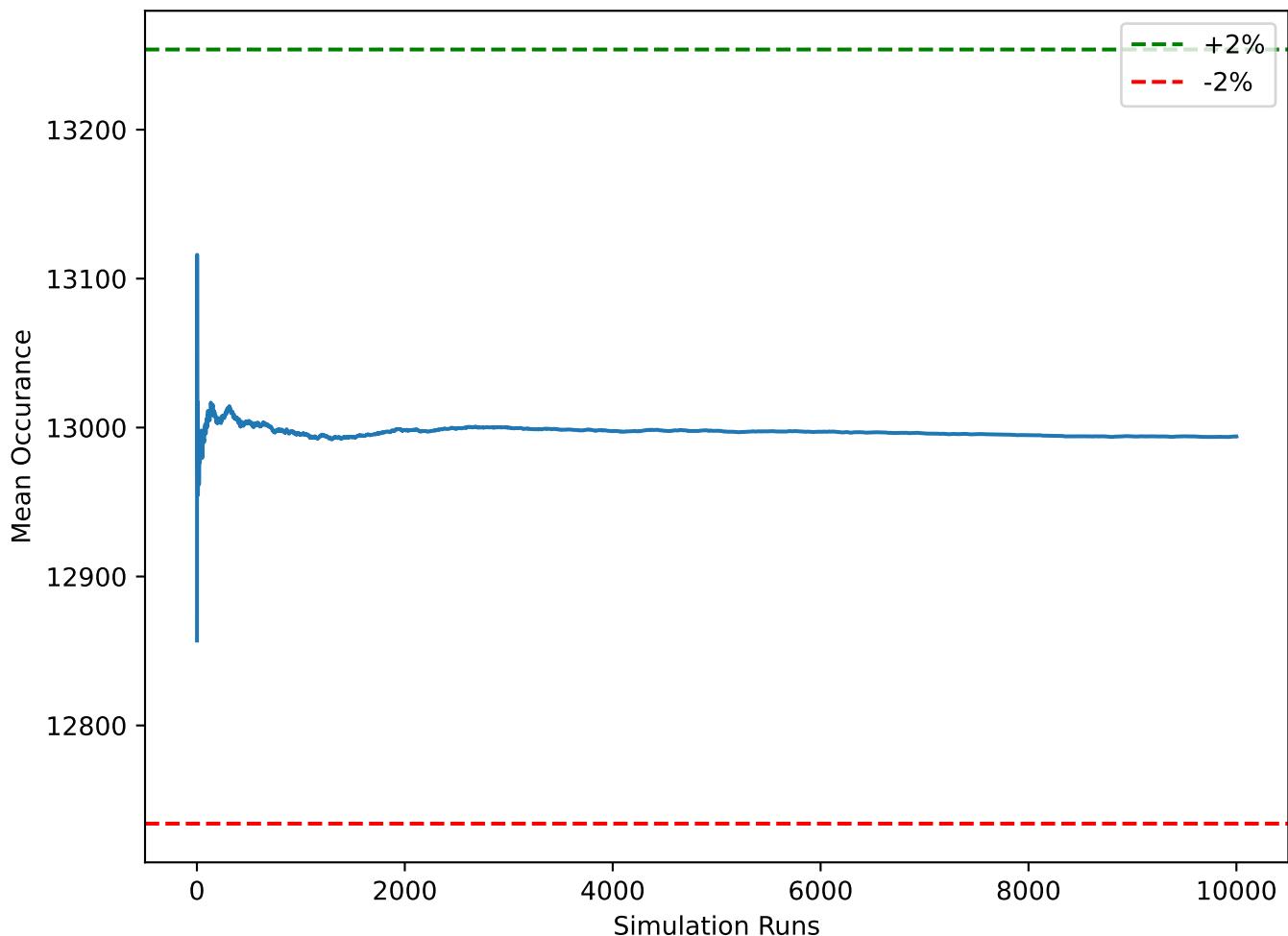
Initial Electron at 100keV For mode v_1 Mean Occurance vs Simulations Ran



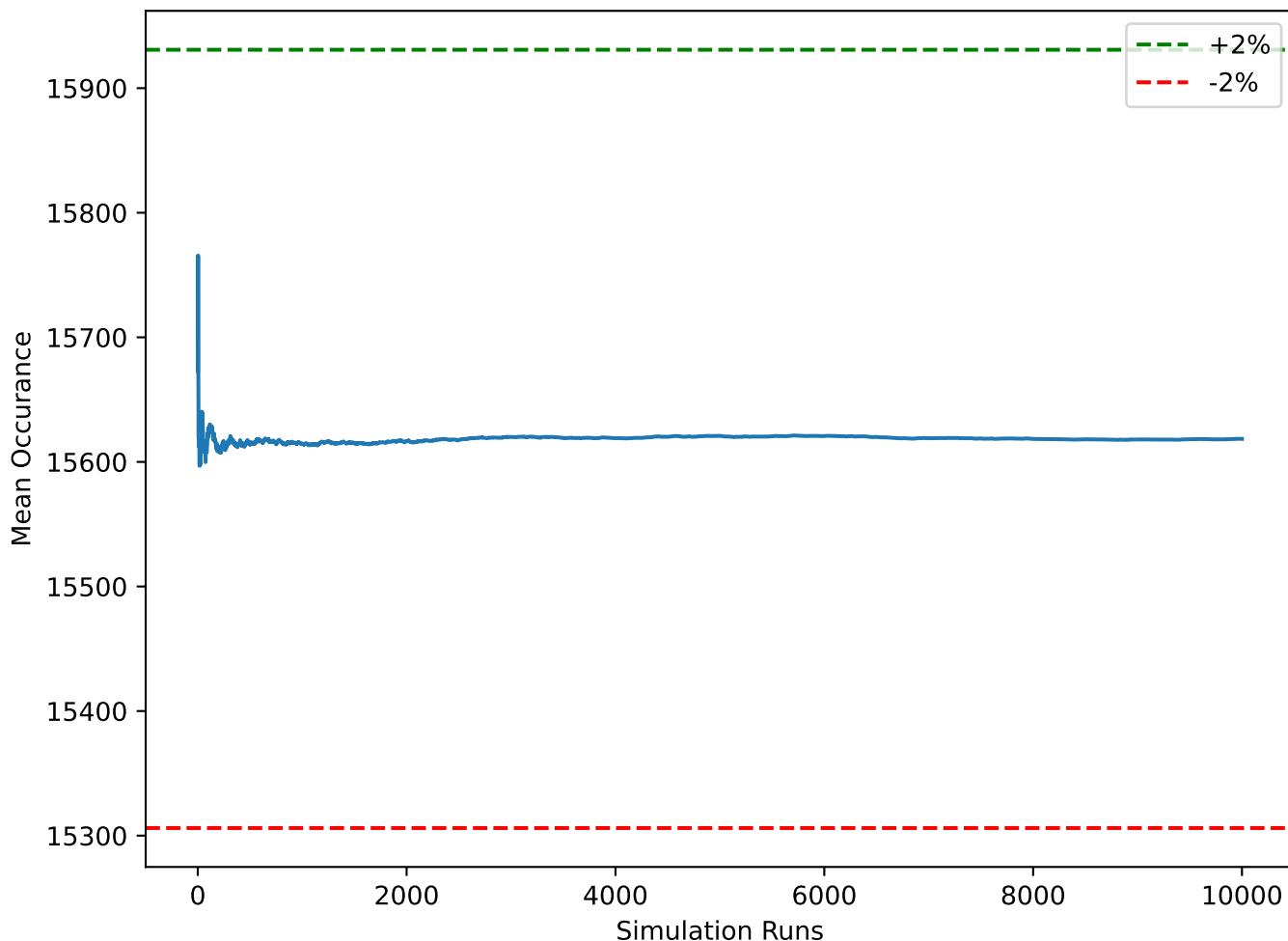
Initial Electron at 100keV For mode v₂ Mean Occurance vs Simulations Ran



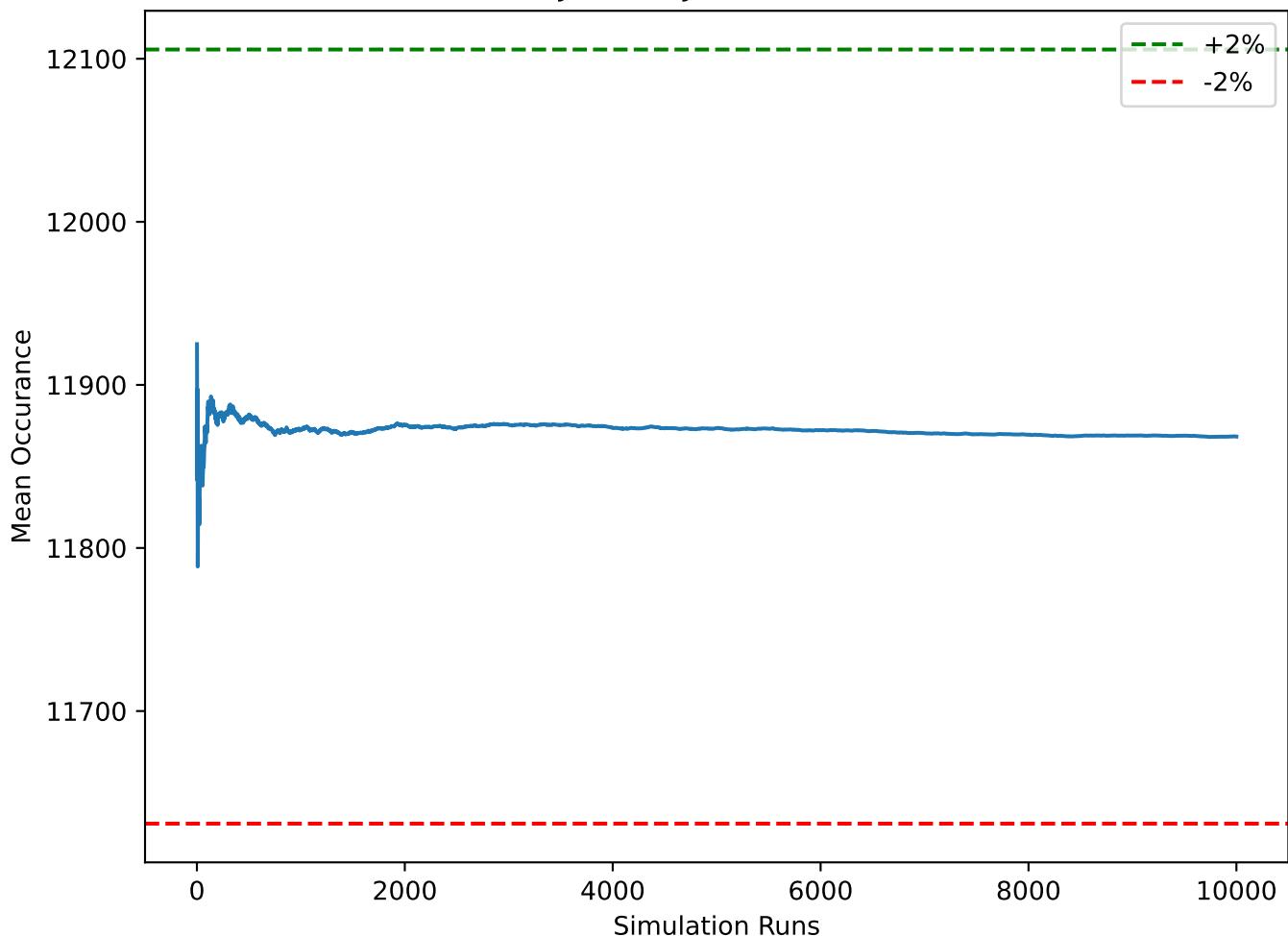
Initial Electron at 100keV For mode v₃ Mean Occurance vs Simulations Ran



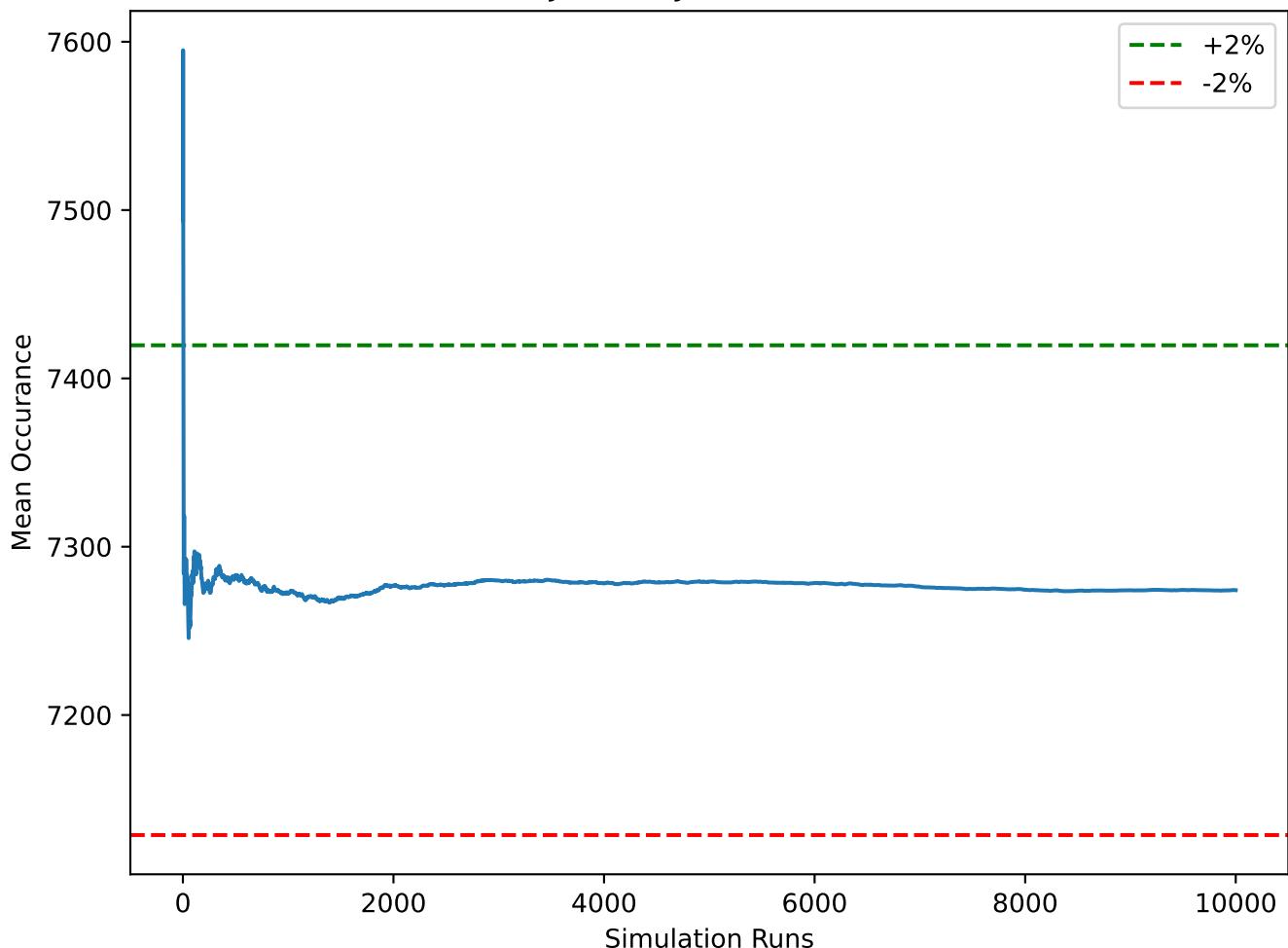
Initial Electron at 100keV For mode v₄ Mean Occurance vs Simulations Ran



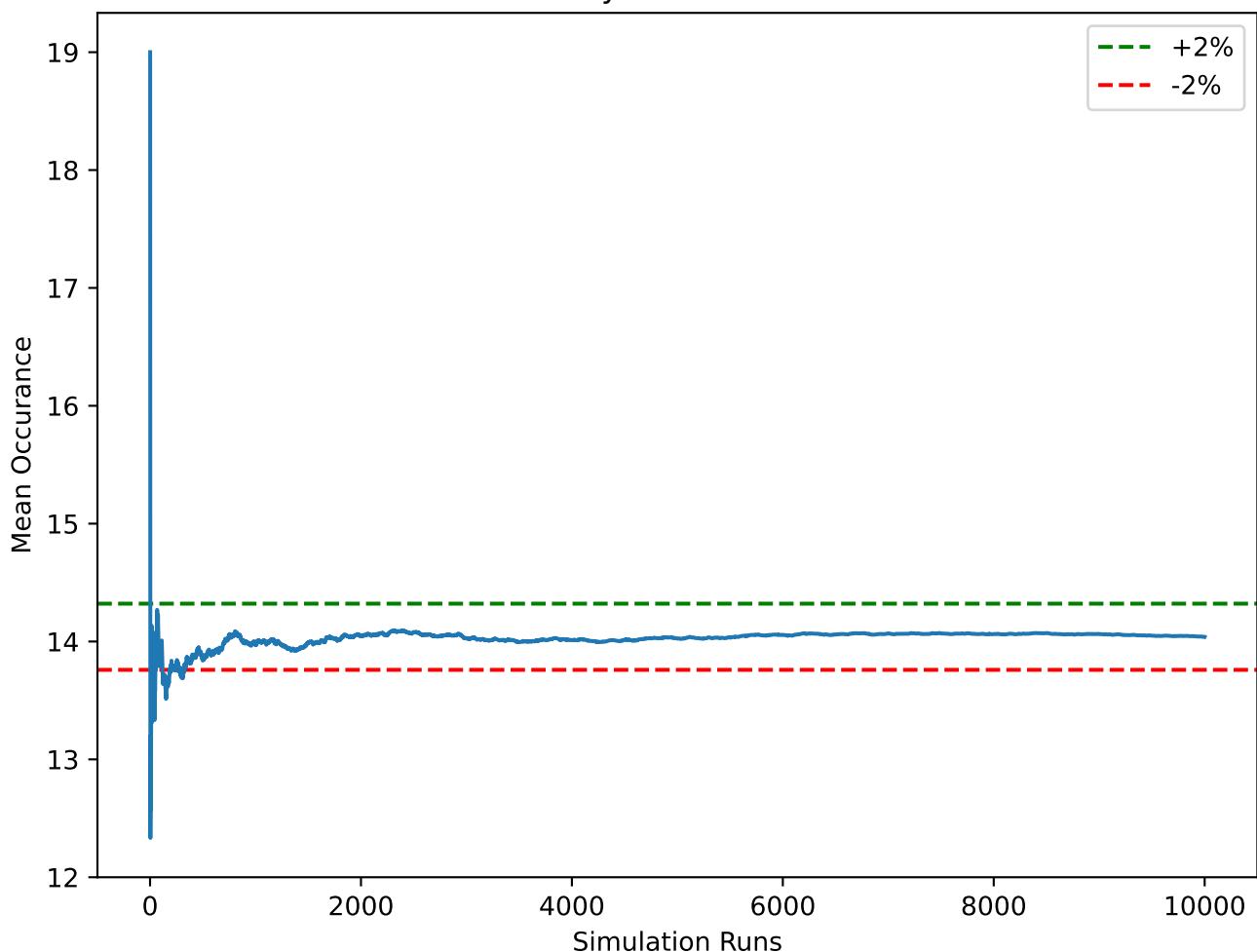
Initial Electron at 100keV For J = 0 to J = 3 Mean Occurance vs Simulations Ran



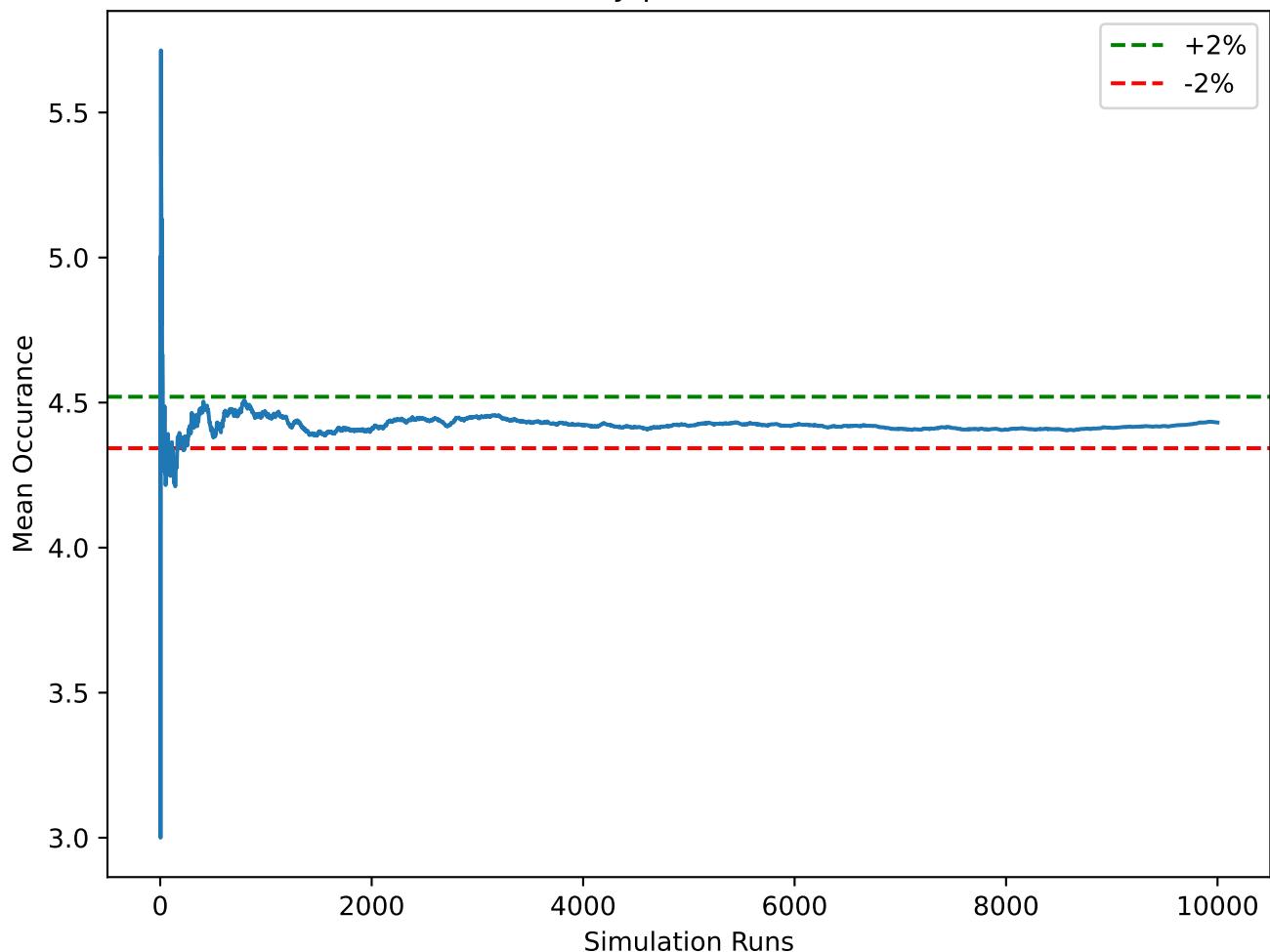
Initial Electron at 100keV For J = 0 to J = 4 Mean Occurance vs Simulations Ran



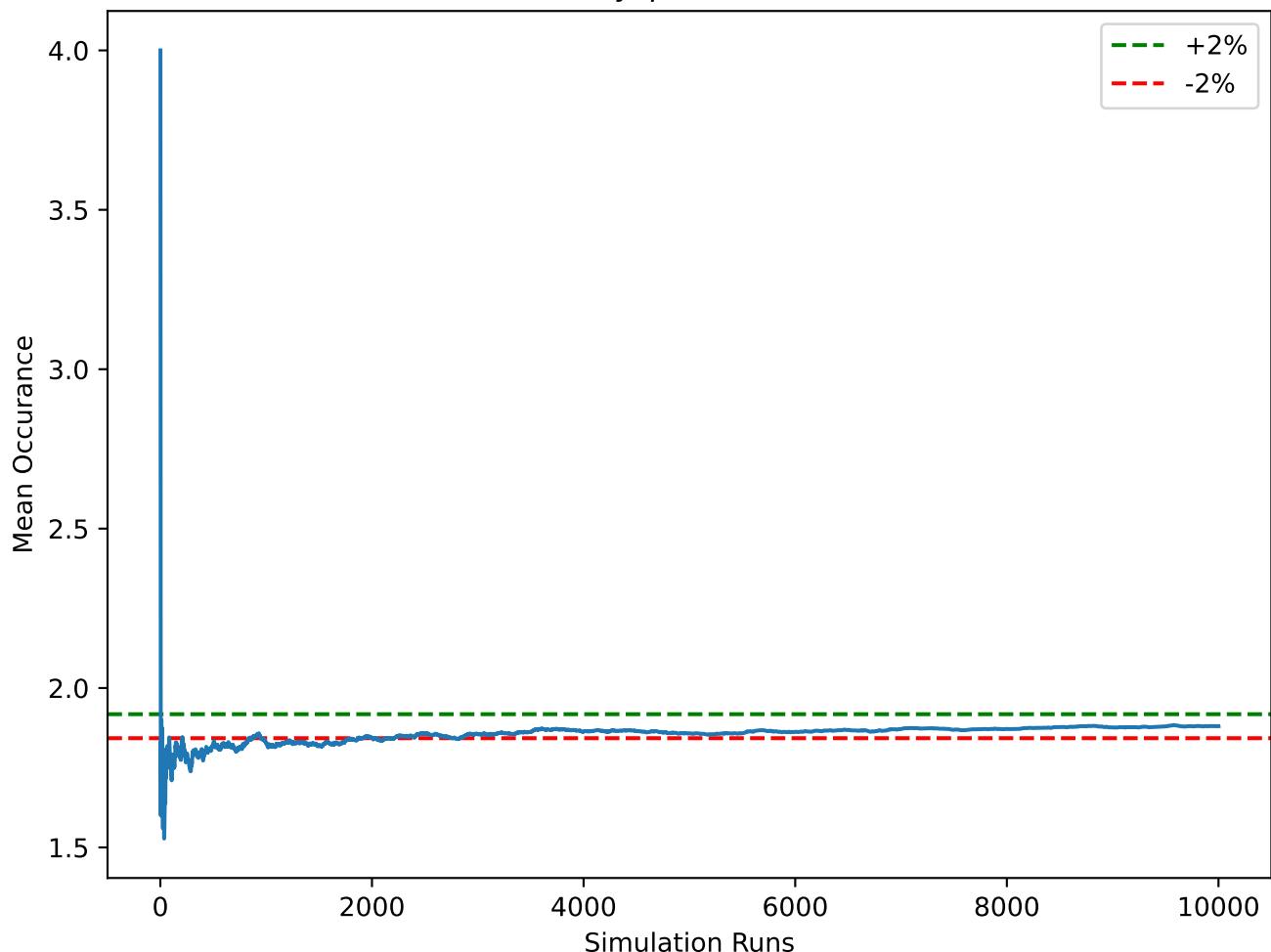
Initial Electron at 100keV For Ly- α Mean Occurance vs Simulations Ran



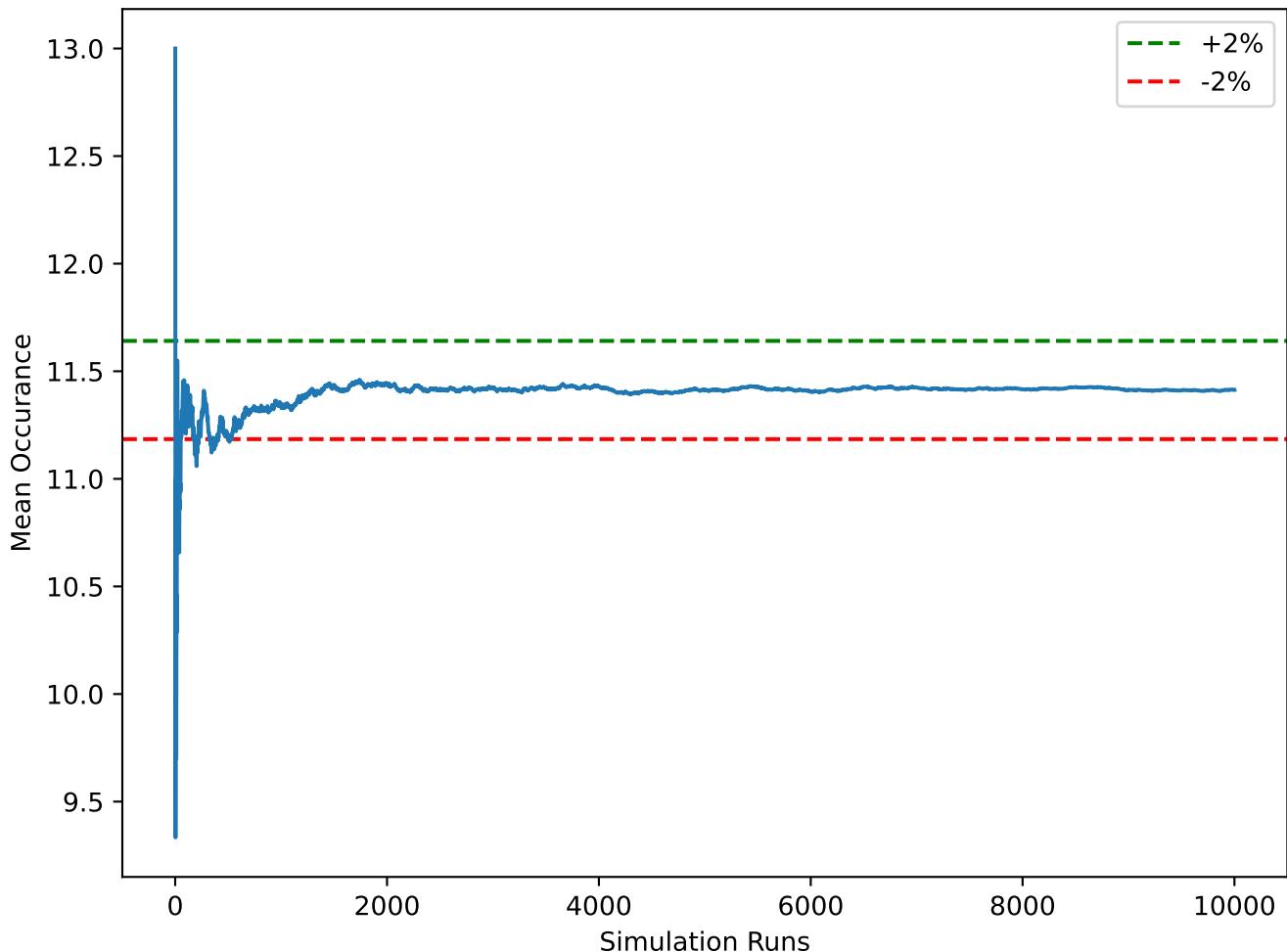
Initial Electron at 100keV For Ly- β Mean Occurance vs Simulations Ran



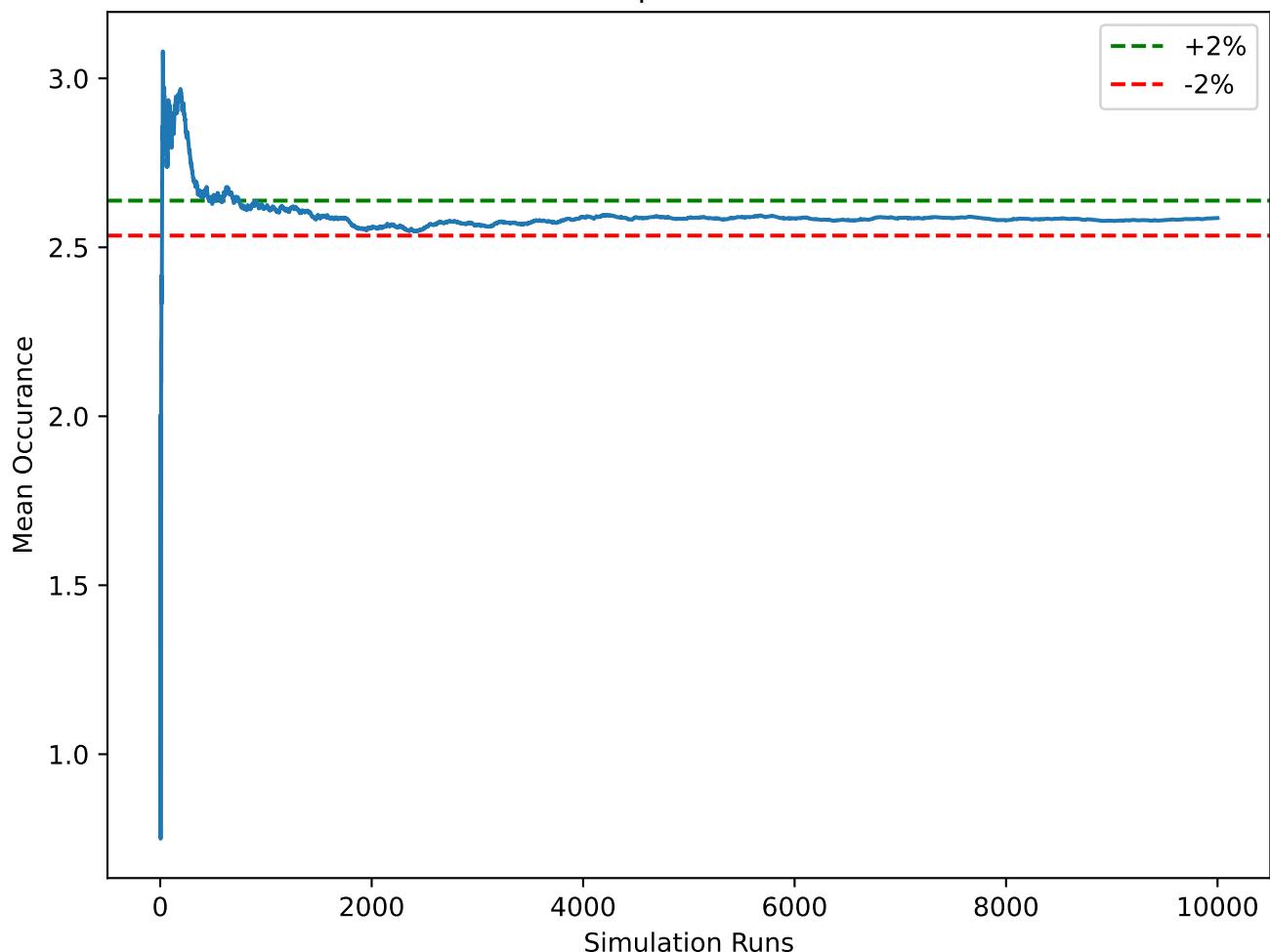
Initial Electron at 100keV For Ly- γ Mean Occurance vs Simulations Ran



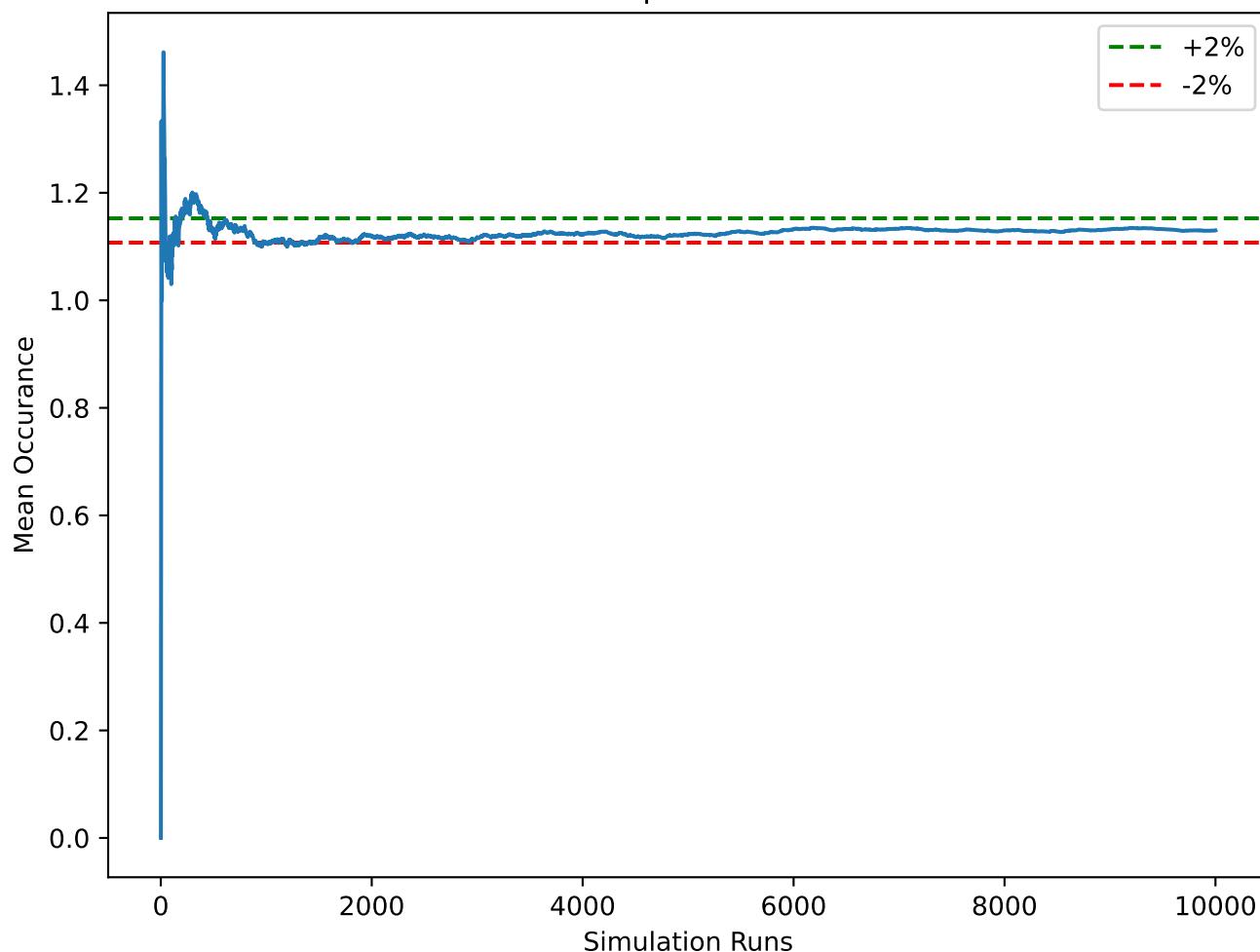
Initial Electron at 100keV For H- α Mean Occurance vs Simulations Ran



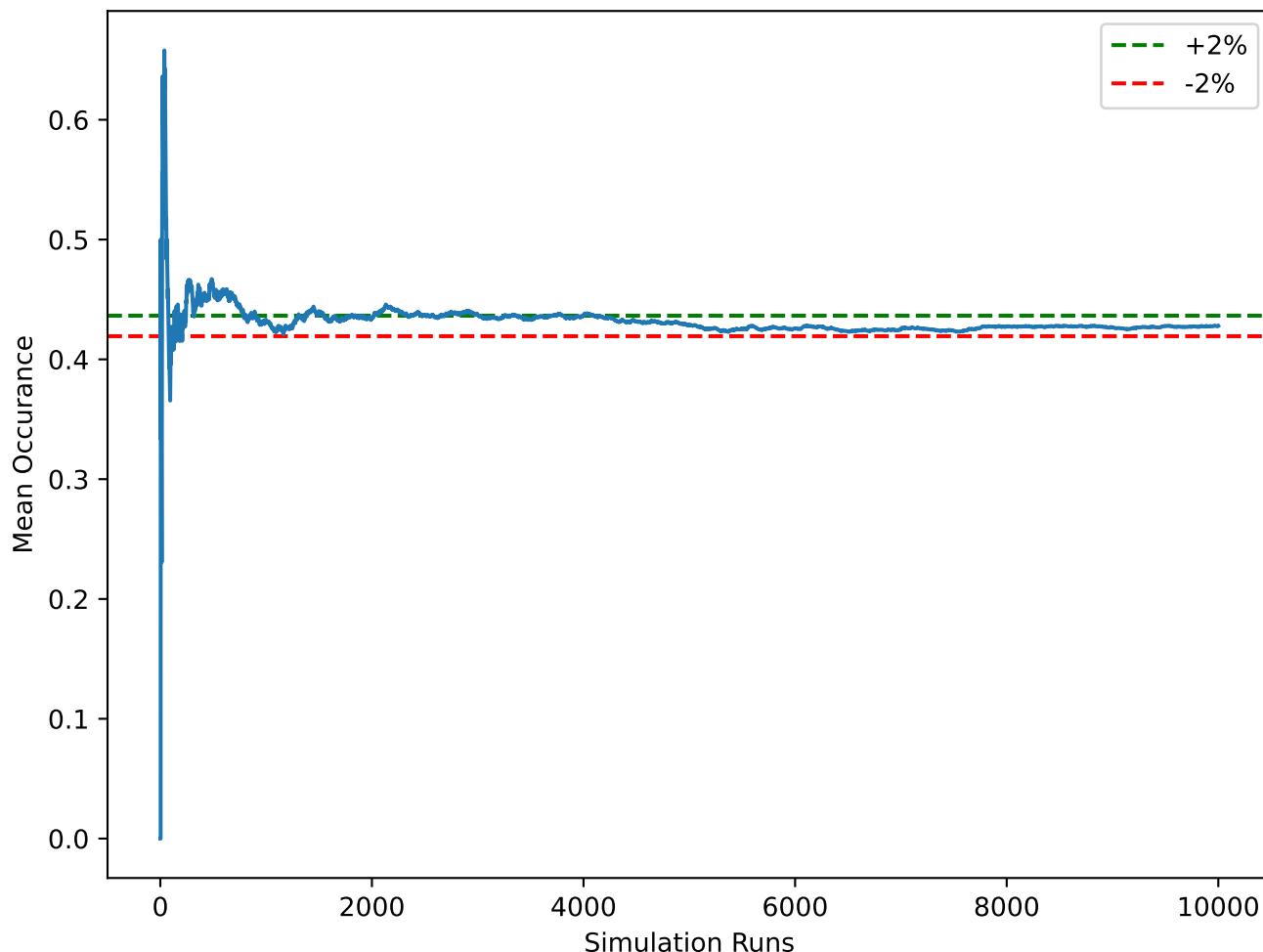
Initial Electron at 100keV For H- β Mean Occurance vs Simulations Ran



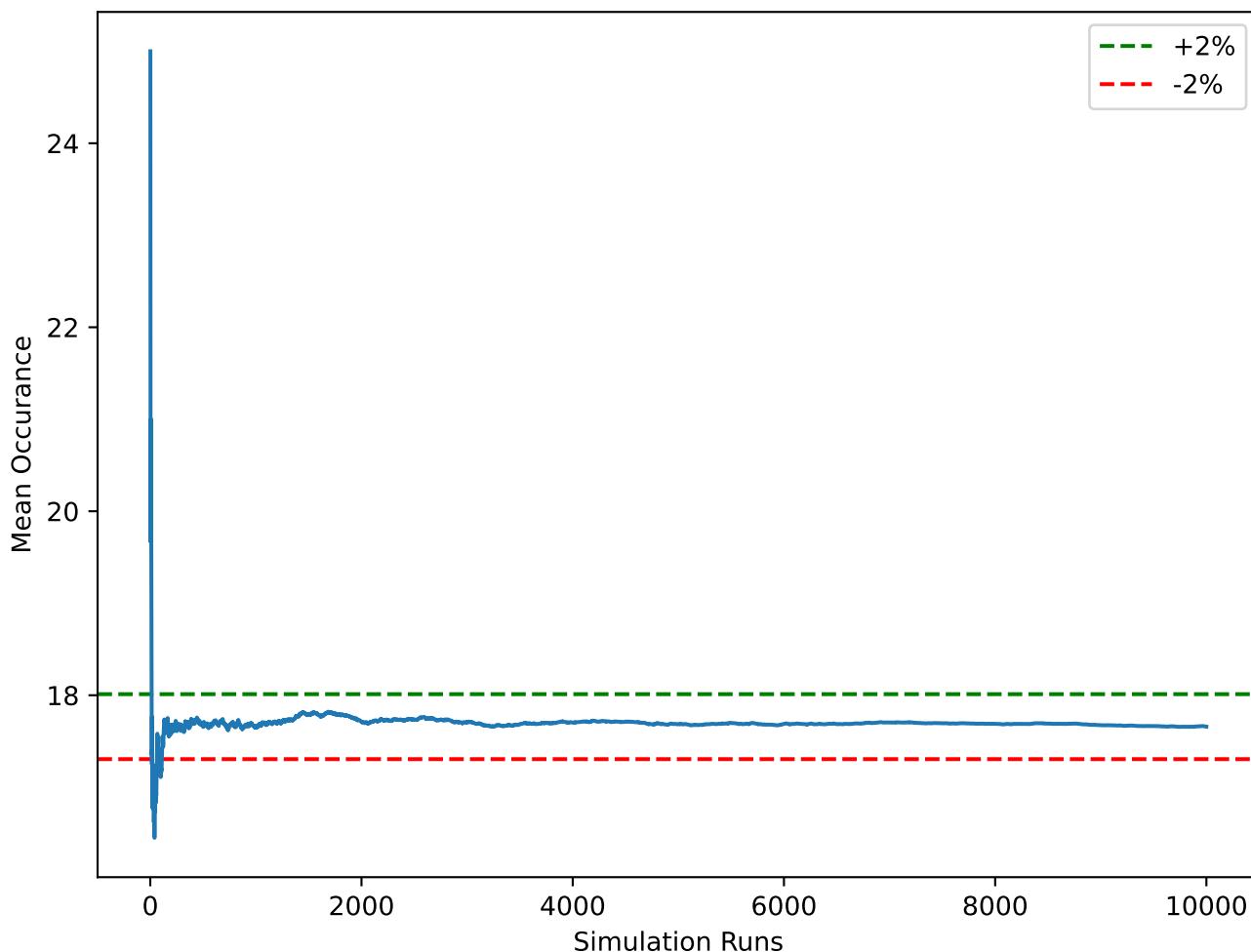
Initial Electron at 100keV For H- γ Mean Occurrence vs Simulations Ran



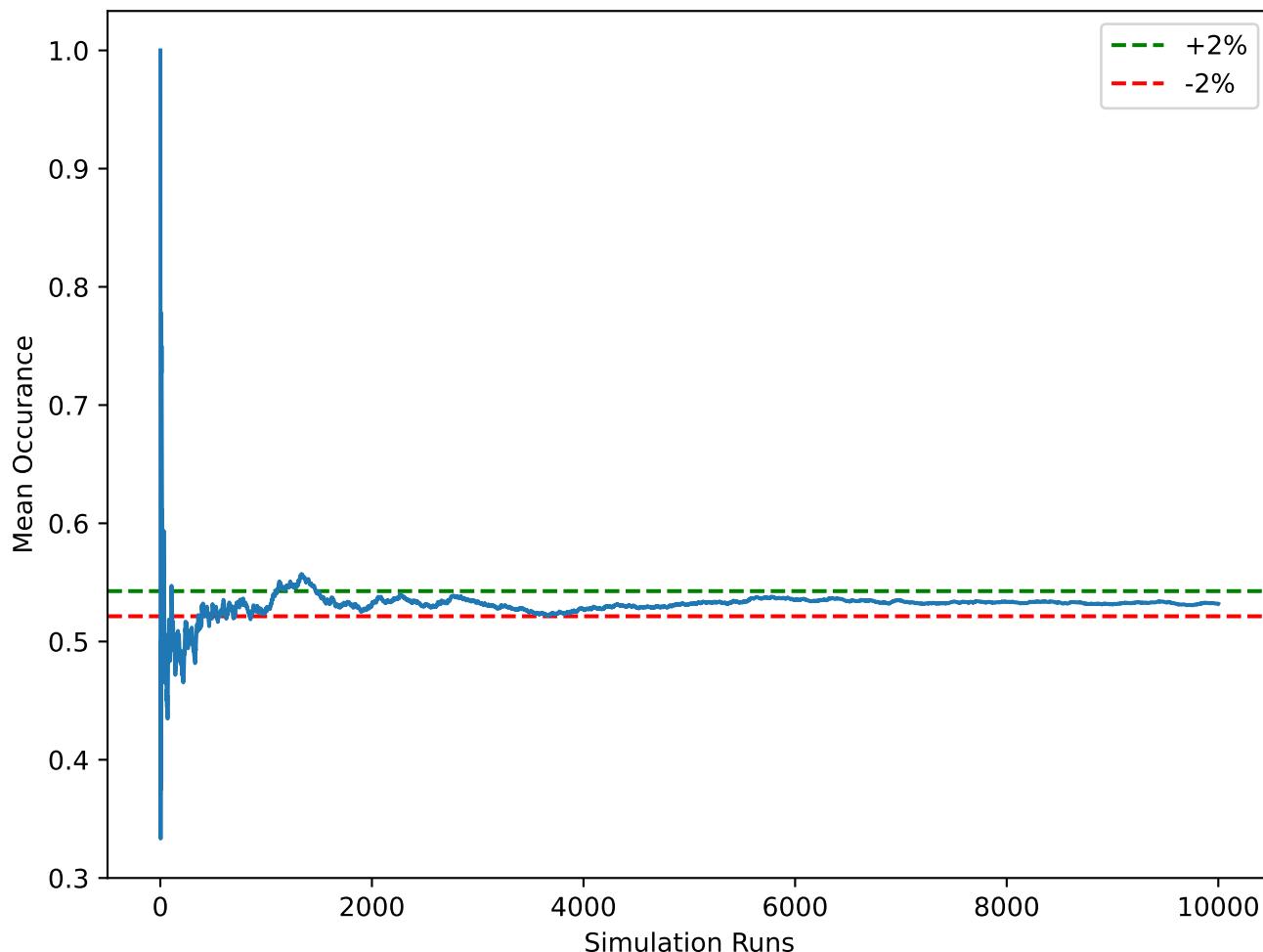
Initial Electron at 100keV For H- δ Mean Occurance vs Simulations Ran



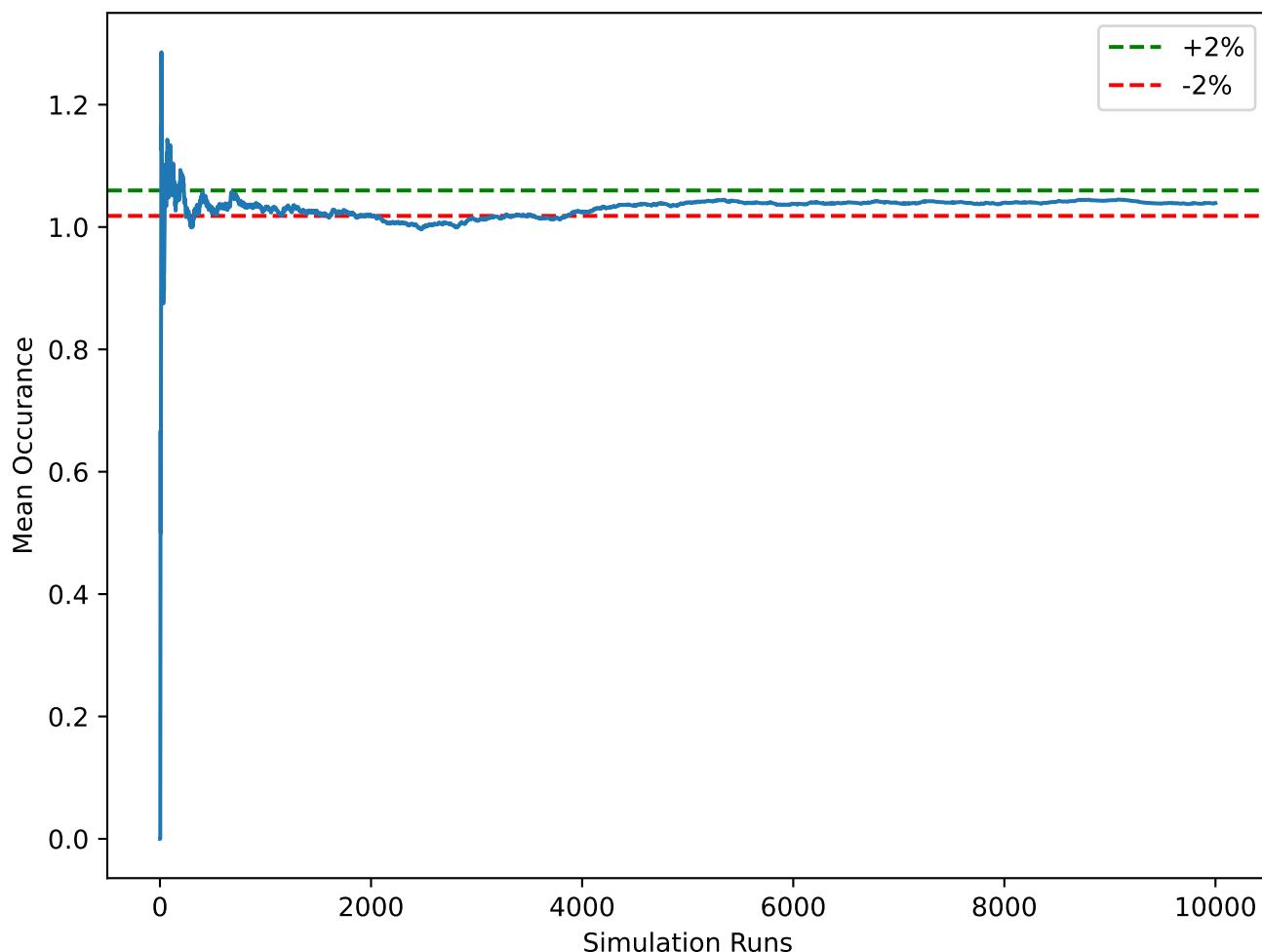
Initial Electron at 100keV For CH G-band Mean Occurance vs Simulations Ran



Initial Electron at 100keV For C III Mean Occurance vs Simulations Ran



Initial Electron at 100keV For C I Mean Occurance vs Simulations Ran



Initial Electron at 100keV For C IV Mean Occurance vs Simulations Ran

