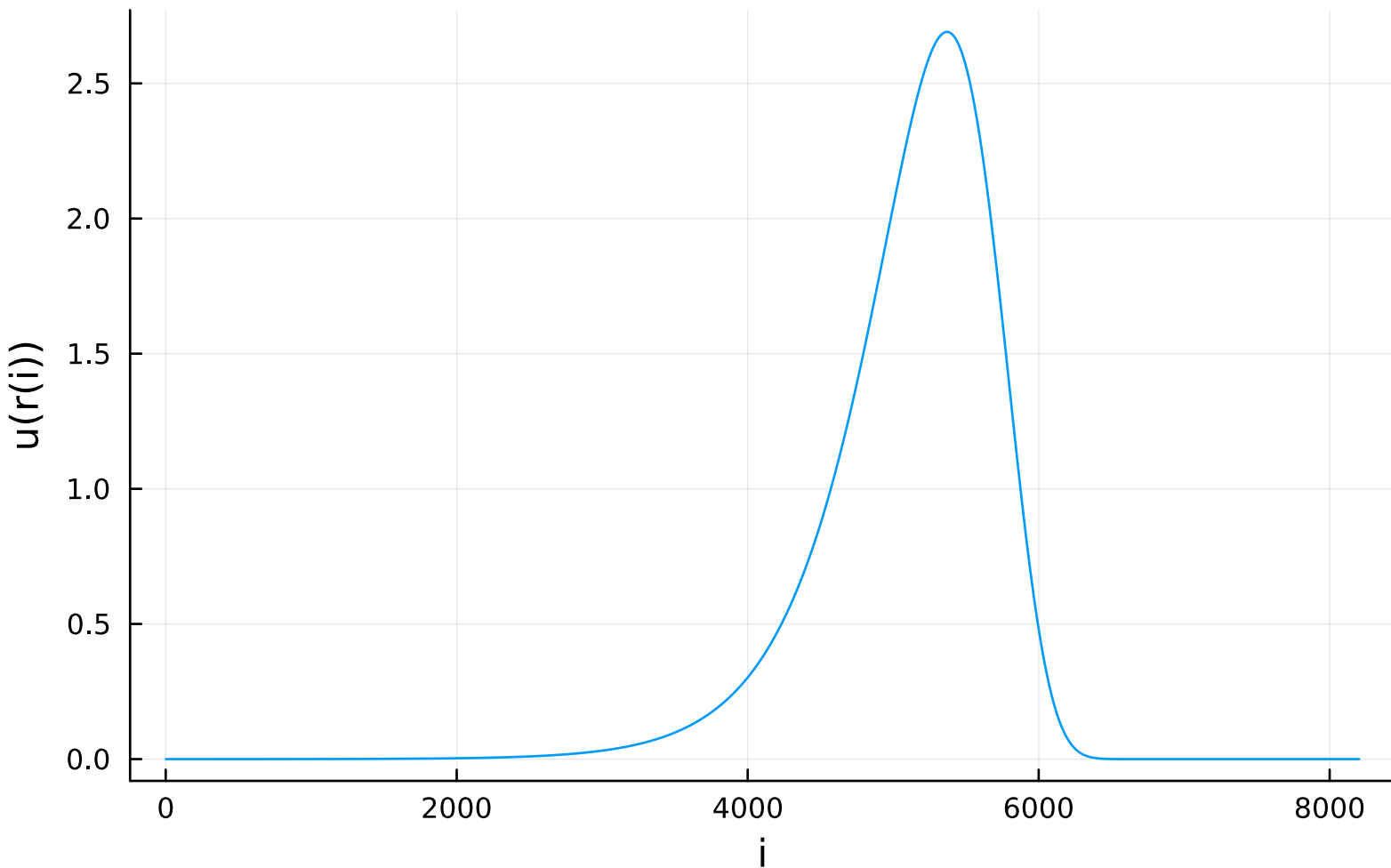
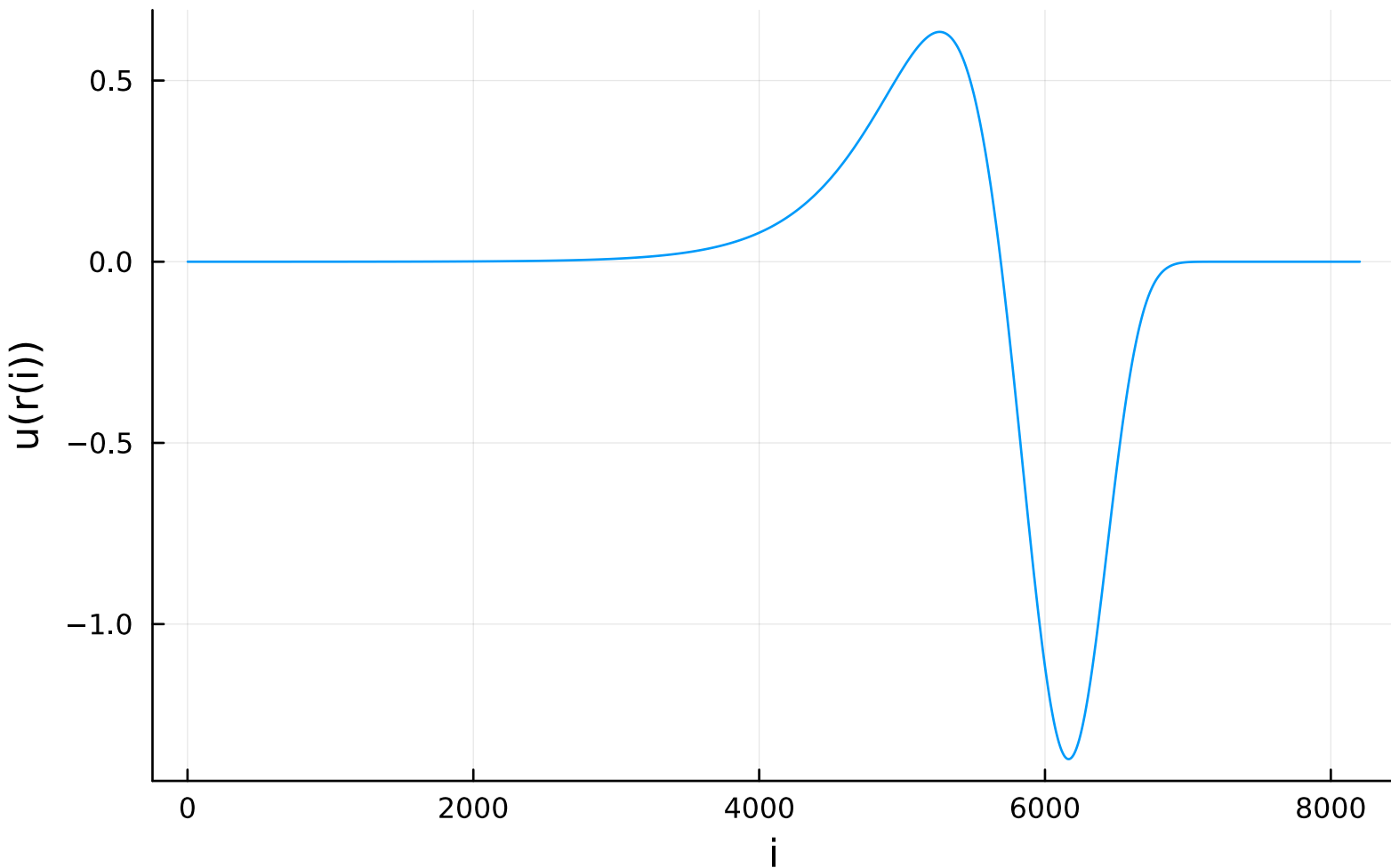


|         |              |             |              |                     |
|---------|--------------|-------------|--------------|---------------------|
| Silicon | E in Hartree |             |              |                     |
| Name    | E NIST       | E pred      | $ \Delta E $ | $ \Delta E /E$ NIST |
| Ecoul   | 131.767814   | 131.763629  | 0.004185     | 0.000032            |
| 3p      | -0.153293    | -0.153596   | 0.000303     | -0.001977           |
| Etot    | -288.198397  | -288.198397 | 0.000000     | -0.000000           |
| 2s      | -5.075056    | -5.075338   | 0.000282     | -0.000056           |
| 3s      | -0.398139    | -0.398440   | 0.000301     | -0.000757           |
| Exc     | -19.553276   | -19.552791  | 0.000485     | -0.000025           |
| Ekin    | 287.487740   | 287.473250  | 0.014490     | 0.000050            |
| 2p      | -3.514938    | -3.515201   | 0.000263     | -0.000075           |
| 1s      | -65.184426   | -65.185024  | 0.000598     | -0.000009           |

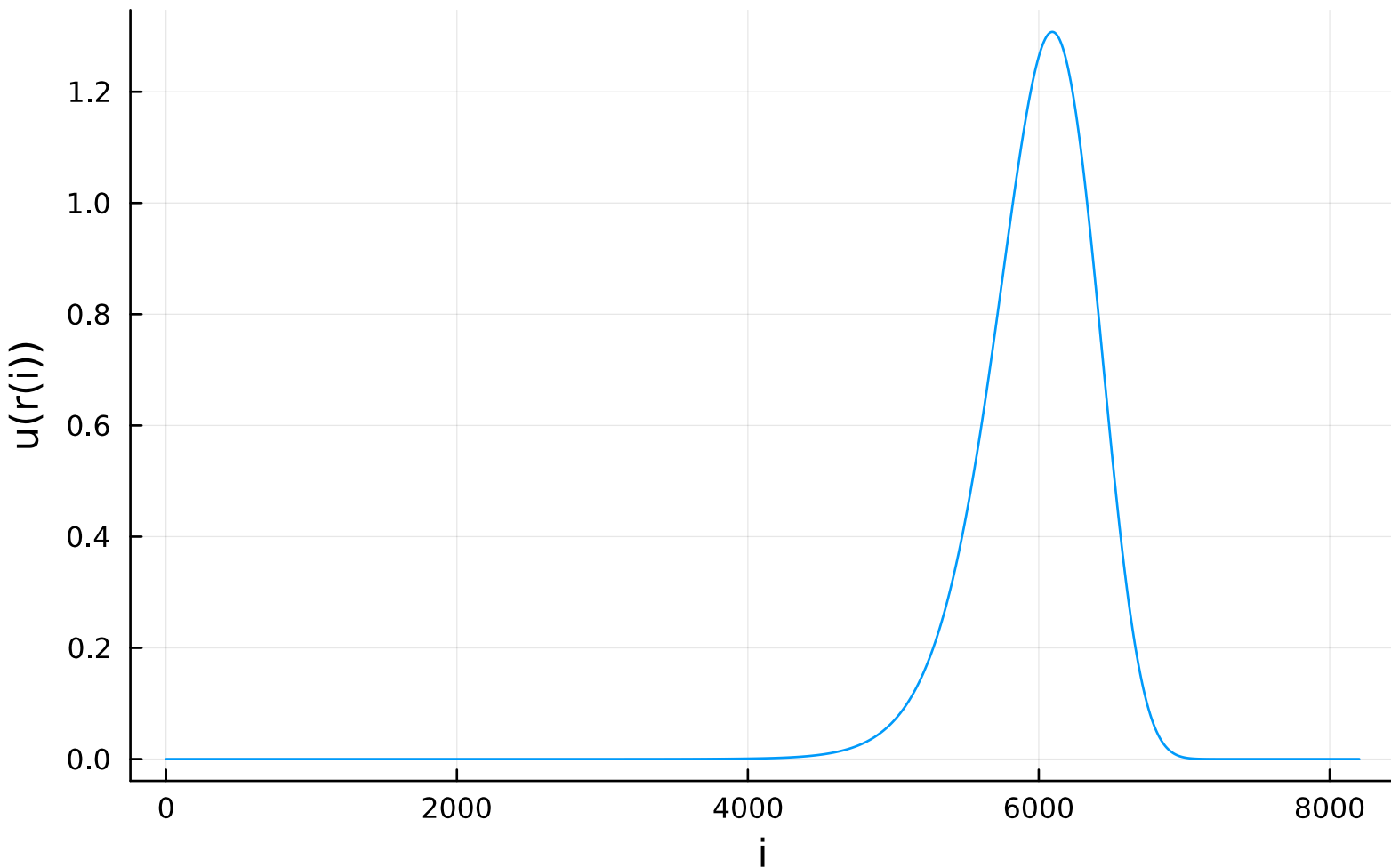
# Orbital 1s eigen energy -65.1850



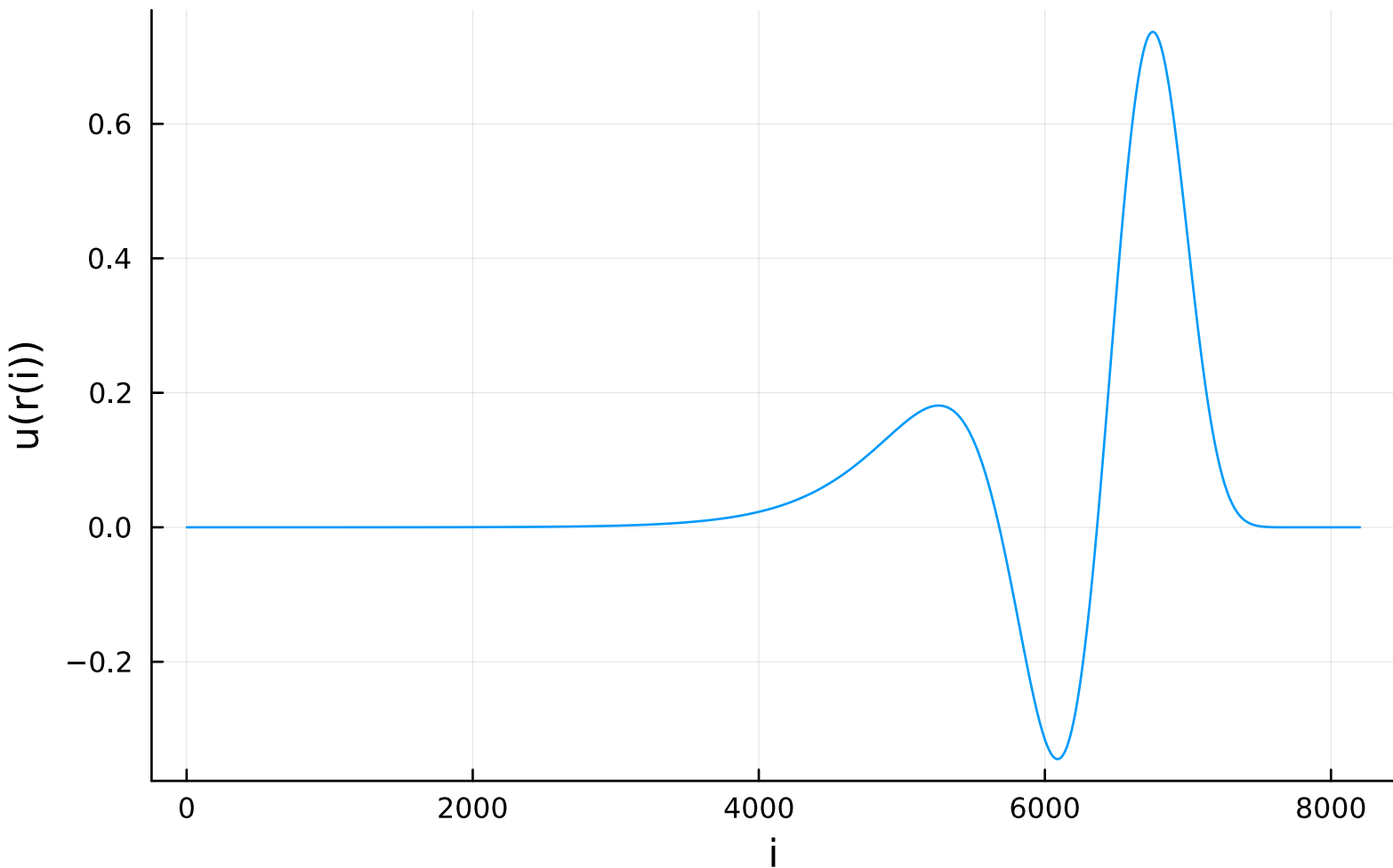
# Orbital 2s eigen energy -5.0753



# Orbital 2p eigen energy -3.5152



# Orbital 3s eigen energy -0.3984



# Orbital 3p eigen energy -0.1536

