



















|   | matlab script for DOS calculations of carbon papotubes  | apue c    |
|---|---|-----------|
| A |   | $\square$ |
|   | CNTbands  |           |
|   | Hub Directory   |           |
|   | User: lundstro   Run CNTbands. Help Available.  |           |
|   | CNTbands-Related Information  |           |
|   | CNTbands-Related Information          Description         Source         Questions         Run Status   |           |
|   | CNTbands-Related Information          Description         Source         Questions         Run Status   |           |
|   | CNTbands-Related Information          Description         Source         Questions         Run Status    Run CNTbands        1. Execute CNTbands  |           |
|   | CNTbands-Related Information          Description         Source         Questions         Run Status    Run CNTbands          1. Execute CNTbands         2. View/Download CNTbands Output Files |           |

| In the execut | te page you define   | the CNT                        | and a little part |
|---------------|--|--------------------------------|-------------------|
|               | NTbands: Execute <u>Hub Directory   CNTbands   Step 1 Execute</u> <u>Help</u> for <i>Step 2: Execute</i>   User: hur   | <u>Step 2 Output</u><br>dstro  | -                 |
|               | Carbon Nanotube Type<br>n<br>m:<br>Tight Binding Energy<br>t (eV):<br>Plot Options<br>DOS Energy Range (eV):<br>(from x to +x)<br>Normalized Axial Wavevector [kt/ktmax]<br>(from x to +x)<br>Number of Unit Cell Atoms for 3-D Plot<br>Plot Format(s) | 10<br>0<br>3<br>2.5<br>1<br>10 | -                 |
| \$            | GIF (Graphic Interchange Format)<br>DPDF (Portable Document Format)<br>DPS (PostScript)<br>Output Folder:<br>Run CNIbands  | critbands                      | 12                |

| Then you run it!   |    |
|--|----|
| Program Status   |    |
| Hub Directory   CNTbands   Step1. Execute   Step2. Output  |    |
| You are currently running 1 program(s) (Maximum Allowed: 3).   |    |
| Define Update Status Info OR   |    |
| <b>Inthends</b> (process #86). Status: running. Elapsed time: 14 seconds.<br>Machine: four-processor 296MHz Sun Enterprise server.<br>Credits: made possible by grants from the National Science Foundation. |    |
| Hub Directory   CNTbonds   Step1 Execute   Step2 Output  |    |
|  |    |
|  |    |
|  |    |
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| - V       | /hen done, you check the output files   | and Study |
|-----------|---|-----------|
|           | Hub Directory   CNTbands   Step 1 Execute   Step 2 Output<br>Help for Step 3-Output   User: lundstro   Working Folder: /cmbands/Output/cmbands/           |           |
|           |   |           |
|           | a ♥ View File OR. Open Falder<br>O Delete File OR Folder<br>♥ Download File to Your Disk Kaff   |           |
|           | b.       O Go To Examples Folder       Working Folder Will Not Change         c.       Commands typed here over-ride<br>the check-box selections above.   |           |
|           | 2. Execute the selected command (Execute the Command)   |           |
|           | Hub Directory   CNTbands   Step1 Execute   Step2 Output<br>Nanotechnology Simulation Hub<br><u>PUNCH User's Manual   PUNCH-Related Questions/Comments</u> |           |
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