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Influence of CO molecule on structure stability and electronic properties of silver nanotube

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**Highlights**

- The top and bridge (B1) sites are the stable sites for CO molecule adsorption.
- The AgNT undergoes a slight structural distortion after the CO adsorption.
- The electronic structure properties can be described by the Blyholder model.
- The quantum conductance of AgNT decreases by  $1G_0$  after CO adsorption.

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