Nano two-state constant modules using graphene sheets

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In the expected future, if we can create plane single-layer graphene sheets and can connect them vertically or in parallel by some means, the design presented in the following figures would make it possible to produce nano-scale physical properties, opened and closed state. As the result, they could be parts of nano-scale filters, electronic devices, or any nanoscale fine-tunings parameters.

Fig.1 Three-view drawing of opened state

We use 2 shaped 4 graphene sheets for the opened state. Set two green and blue graphene vertically. Green and blue graphene are set vertically and black and grey are stabbed horizontally to them. If you see from the top, you can see black graphene laying and grey is behind.

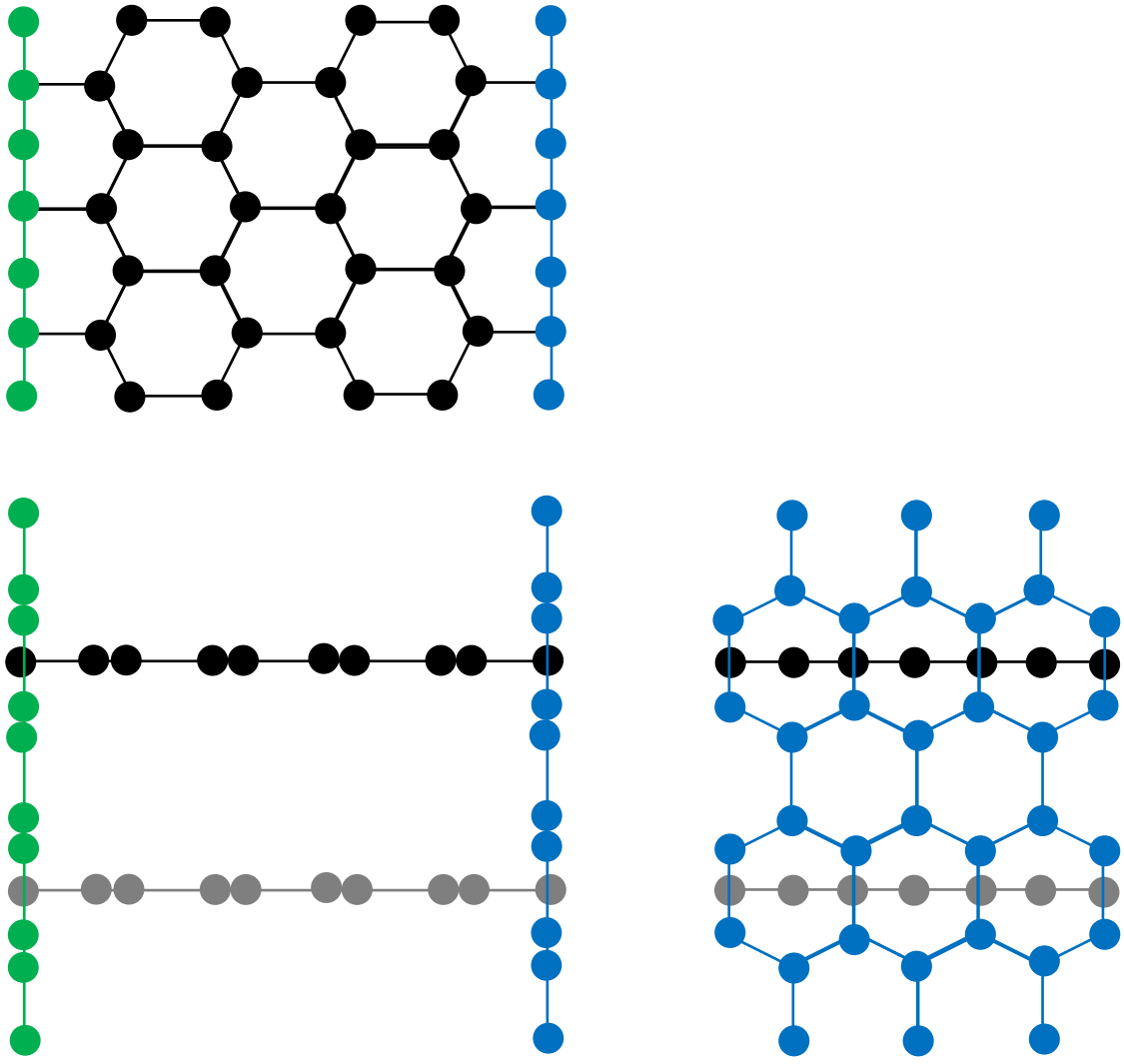

Fig.2 Closed state

The closed state is adding another graphene-colored red between black and grey. If you see it from the top again, you will find the red graphene shift to the side slightly from black. It results in closing holes of opened state.