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# Transport properties of "man-made" crystalline: Semiconductor superlattice

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The electron transport in semiconductor superlattices exhibits interesting phenomena, which are quite different from those that occurred in a bulk material. This depends on the electronic band structures in the semiconductor superlattices. The energy band gaps of the superlattices are aligned, but the magnitudes of the band gaps are different. The difference in the width of the energy gap in different semiconductors forms the boundary of the conductivity band for perfect semiconductor superlattices that are modulated periodically and leads to the formation of energy minibands.

## Biography

M Kofoworola Awodele received MSc in Physics from University of Ibadan, Nigeria in 2002 and a PhD in Physics from Loughborough University, Loughborough UK in 2015. She is working at Ladoke Akintola University of Technology, Ogbomoso. Her research interest is theoretically investigating novel mechanism for electron and spin transport in nanostructures looking at electron transport in semiconductor superlattices.

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