



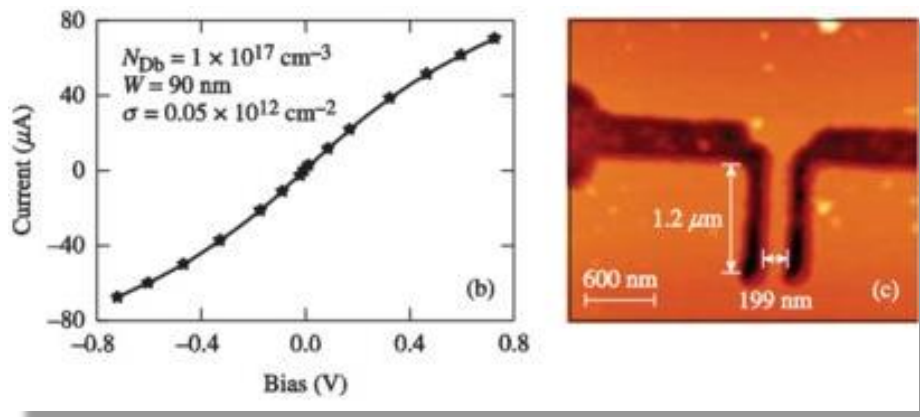
**CENTER**  
FOR PHYSICAL SCIENCES  
AND TECHNOLOGY



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## Intrinsic ballistic nanostructures

2019-05-28 16:00 / NFTMC D401, Saulėtekio 3



Intrinsic nanostructures exhibit unique physical properties that are a direct consequence of their nano-scale parameters and the quantum mode of operation, in contrast to scaled down versions of well-known conventional devices. In this talk intrinsic nanostructures will be reviewed, with a special emphasis on the asymmetric nano-channel diode and its applications.