

Quantum structures and photonics with III-V nanowires

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Semiconductor nanowires have increasingly attracted attention because of their special properties derived of their filamentary nature and high crystalline quality. In this presentation we will review some of the possibilities that nanowires give in terms of fabrication of quantum structures as well as their photonic properties associated with their shape. We will also explain how these can be applied to improve and created new concepts in optoelectronic applications and solar energy conversion.