

Deposition techniques that enable advanced device fabrication

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Deposition techniques are keystone technologies for fabrication of both proof-of-concept and advanced devices, on a lab scale as well as in industry. They are enablers of our current technological advancement. In this talk, I will introduce the basic concepts of molecular beam epitaxy, chemical vapor deposition and atomic layer deposition, stressing their roles in fabrication of quantum devices. The talk is aimed as an introductory lesson to planar technologies for master students with physics background.