

Growth of low-D materials for quantum technology

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Honda Research Institute USA Inc.**Date: Wednesday, September 28, 2022 14:00-15:30****Venue: Faculty of Engineering Bldg. 2, Room 232 /
Online (hybrid)****Abstract:**

Reducing the dimension of materials adds another degree of freedom for fine control over their electronic properties., which is key for futuristic quantum technologies. Therefore, developing facile methods for controllable synthesis of high quality low-D materials are of central importance. I will present some of growth peculiarities of carbon nanotubes, graphene and single atomic layer transition metal dichalcogenides (TMD's). Special attention will be paid on the growth of sub-10 nm TMD nanoribbons, their width-dependent Coulomb-blockade oscillation and photon emission features that hold potential for quantum devices such as single electron transistors and single photon emitters for quantum electronics and communication, correspondingly.

Registration (Venue/Online)
<https://forms.gle/LHnFbLB9joHLEtdi7>
Please register by Sep. 22.