







第365回GMSI公開セミナー/第188回CIAiSセミナー/第110回WINGSセミナー

## Growth of low-D materials for quantum technology

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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 graphene and nanotubes. singe atomic transition metal dichalcogenides (TMD's). Special attention will be paid on the growth of sub-10 nm TMD nanoribbons, their width-dependent Coulombblockade oscillation and photon emission features that hold potential for quantum devices such as singe electron transistors and single photon emitters for electronics communication. quantum and correspondingly.





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

主催: 東京大学大学院工学系研究科専攻間横断型教育プログラム 機械システム・イノベーション (GMSI)

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