
S E M I N A R
aus
Halbleiterphysik und Nanotechnologie

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**“Intercalation of water in sub-nano space between
graphene layers”**

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Does water enter in between graphene layers, a space of only 0.34 nm? Will it expand this interlayer and by how much? Is water the same (as bulk) after entering a confined space? What effects does it have on graphene layers? For multi-layers, can water enter all these layers or only selective layers? Some questions have been answered, some not. Some answers have been changed a few times in the past. This talk will go through these questions with some new experimental evidences. Intercalation of water in graphene layers could have huge impacts — graphene-based devices might behave differently in very humid Leoben from dry Arizona, US.