CADFEM

HQS QUANTUM SIMULATIONS

WORKSHOP INVITATION

LINKING QUANTUM AND PHOTONIC SIMULATIONS

With technological progress and increasing customer demands, there is a constant need for improvement of product development cycles. Advancements in physical simulation methods are a critical component to make this improvement possible. More specifically, multiscale simulations will be the future of computational physics as we move towards the goal of parameter-free simulations.

We invite you to take part in a dedicated workshop jointly organized by CADFEM and HQS Quantum Simulations to dive into our vision of connecting ab-initio electronic structure calculations with tools that are already being used with great success today to develop e.g. photonic components, circuits, and systems.

In this workshop, we will present the capabilities of HQS Device Tools as well as Ansys Lumerical and discuss how to link those two together. We invite you to give us feedback on what is needed for this link to create value for you.

WHEN?

Wednesday, June 28th, 2023, 1:30 pm - 5:00 pm

WHERE?

Meeting Room Weisskopf, NOVOTEL München Messe, Willy-Brandt-Platz 1, 81829 München

In immediate vicinity of the venue of the LASER World of PHOTONICS trade fair

LASER World of **PHOTONICS**

COSTS?

This event is free of charge.

If you are eager to learn how to incorporate results of microscopic quantum calculations directly into the parameters that are used in Ansys Lumerical to solve diffusion equations, please register until **June 27th, 2023**, for one of the limited seats:

CLICK HERE TO REGISTER

CADFEM

CADFEM is a pioneer in the application of numerical simulations in product development. As part of the CADFEM Group, CADFEM Germany GmbH is an established provider of simulation-based digital engineering. For more than 35 years, CADFEM has been in a successful partnership with the world-leading simulation software provider Ansys, Inc. With its technical expertise, CADFEM supports Ansys users in all aspects of simulation. Ansys Lumerical's photonic integrated circuit simulation tools offer a rich set of analysis capabilities to design and optimize the performance of photonic integrated circuits.

Ansys / ELITE CHANNEL PARTNER

HQS QUANTUM SIMULATIONS

HQS Quantum Simulations develops software to simulate materials at the quantum level. HQS customers from the chemical and pharma industries and materials research benefit from its software solutions for developing innovative materials. HQS develops software for quantum simulation that you can already benefit from today and that you will also be able to use on the quantum hardware of tomorrow. With Device Tools, HQS offers a software for representation of semiconductor heterostructures via tight-binding models with efficient solvers for over hundreds of thousands of atoms and options for modelling disorder with a solver where computational complexity scales linearly with system size.

Your Partner for Photonic Simulation:

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FURTHER INFORMATION
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