



PHYSIKALISCHES KOLLOQUIUM

Referent: **Prof. Dr. Carl Bender**
Washington University in Saint Louis, USA



Thema: **PT Symmetry**

Zeit und Ort: Dienstag, 15.12.2020, **17:00 Uhr**
Online-Meeting: Zoom - Join Zoom Meeting:

<https://tu-dresden.zoom.us/j/85090910636?pwd=akYzRlpQRXVReGNZZ2lnZGdxRENUQT09>

Meeting ID: 850 9091 0636
Passcode: .PUz69

Leiter: Prof. Dr. Marc Timme

Kurzfassung: By using complex-variable methods one can extend conventional Hermitian quantum theories into the complex domain. The result is a huge and exciting new class of parity-time-symmetric (PT-symmetric) theories whose remarkable physical properties are currently under intense study by theorists and experimentalists. Many theoretical predictions have been verified in recent beautiful laboratory experiments.

Biographie: Carl Bender is the Konneker Distinguished Professor Emeritus of Physics at Washington University and Visiting Professor at Heidelberg University, Imperial College, and King's College. He received his PhD from Harvard University, was a postdoc at the Institute for Advanced Study, Princeton, and Associate Professor of Applied Mathematics at MIT. He was the Ulam Scholar at Los Alamos, Editor-in-Chief of JPhysA, and was granted fellowships from the Sloan, Guggenheim, Lady Davis, Fulbright, Leverhulme, and Rockefeller Foundations. He was awarded the 2017 Dannie Heineman Prize for Mathematical Physics. He is currently supported by the Alexander von Humboldt and Simons Foundations.

