



IBS Center for Molecular Spectroscopy and Dynamics

COLLOQUIUM

- **SPEAKER**

Director Mischa Bonn (Max Planck Institute for Polymer Research(MPIP))

- **TITLE**

Novel Terahertz Spectroscopies

- **ABSTRACT**

Terahertz spectroscopy, spanning the range from 0-20 THz, or equivalently, 0-660 cm^{-1} , has been widely and very successfully used in the study of charge carrier dynamics in semiconductors[1]. There have been decidedly fewer successful studies reporting molecular spectroscopy in this interesting fingerprint region, where optical phonons and low-frequency vibrational modes are active. At room temperature, substantial thermal excitation of these low-frequency modes typically occurs, determining the structural dynamics in a variety of systems.

Here, I describe our recent efforts to implement new types of terahertz spectroscopies to obtain important insights in both phonon dynamics in solid-state materials [2] and coupling between high-frequency modes and low-frequency modes in water [3] and other systems.

- **DATE AND VENUE**

October 10, 2017 (Tuesday, 5:00 - 6:00 pm)
Seminar Room 116, KU R&D Center

- **LANGUAGE**

English

- **INVITED BY**

Director Minhaeng Cho

* If you want to have a discussion with Director Mischa Bonn or have dinner with him, please contact Susan (susan_tak@korea.ac.kr).