グローバル COE 物質科学イノベーション講演会

演 題： **”Femtosecond laser induced microstructures in glasses”**

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The availability of laser pulses with femtosecond duration allows materials to be subjected to higher light intensity than ever before, opening the door to the study of laser/material interactions in a new regime. Various microstructures induced by femtosecond laser have been reported, such as color centers, voids, and refractive index change. This paper introduces our recent research development on femtosecond laser induced microstructures in glasses, which are not only helpful for understanding the interaction process between the ultrafast laser and the glassy materials, but also valuable for the fabrication of integrated optical elements.

Keywords-femtosecond laser; metal nanoparticles; elemental redistribution; invertied microstructures

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