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医工薬融合 GCOE Seminar Series

Center for Medical System Innovation through Multidisciplinary Integration The University of Tokyo

Laser-Induced Fluorescence: A Personal Account

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Date: Friday, September 9, 2011
Time: 18:00 - 19:00
Venue: West Seminar Room, 1F. Faculty of Pharmaceutical Sciences, The University of Tokyo

Laser-induced fluorescence (LIF) offers many advantages. It gives a bright signal against a dark background enabling detection limits to be pushed to that of a single molecule. LIF permits preparation of a well-defined excited states whose properties, radiative and collisional, can be studied in great detail. It allows probing of molecules in extremely hostile environments, such as flames, arcs, and sparks. LIF can also be used in other amazing ways, from sorting cells, one at a time, to sequencing the human genome. I will present a personal account of my own work with LIF, beginning with the birth of the laser.

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