## Measuring the diffusion coefficient of lipids at the nanometer scale: a thought experiment based on dye sensitized fluorescence

Fabrice Thalmann, Pierre Ayoub

Institut Charles Sadron-University of Strasbourg, France fabrice.thalmann@www-cnrs.unistra.fr (CNRS, 23 rue du Loess Cronenbourg, 67034 Strasbourg)

## **Abstract**

Förster resonent energy transfer is effective on a typical distance RF~5nm. We discuss how this could be exploited in a FCS analogue experiment at very high spatial resolution. We give estimates and try to set the minimal requirements needed for such an observation.