**PROJECT PROPOSITION - Lab1** (M1, second semester)

Supervisor(s): ………Emmanuel Margeat………………………..

Contact email: ………margeat@cbs.cnrs.fr………………………..

Hosting lab: ……CBS……………..

Period of proposed project (put **x** instead of ロ) :

X Only 1st slot ロ Only 2nd slot

ロ One slot, but I have no preference on which ロ Both slots (with different groups)

1st slot: thursdays and fridays, from 3/2/2021 to 18/3/2021

2nd slot: thursdays and fridays (except for the last 2 weeks), from 31/3/2021 to 6/5/2021

CONSTRUCTION OF AN OPTICAL DUAL VIEW SYSTEM

Subject (5 lines max for the description)

The objectif of the process is to construct a “dual view” optical system on a home made optical microscope, in order to detect simultaneously single molecules in two colors in widefield / TIRF configuration.

Technical tools to be used:

Review of the litterature. Selections of several configurations to be tested.

Construction of several optical systems.

Preparation of test microscopy slides, data acquisition and analysis

Objectives:

Test several optical configurations. Quantification of signal, background, optical abberations. Choice and validation of the best configuration.