

S1 Figure. Typical *in silico* simulated fluorescence recovery curve of a FRAP experiment (*i.e.* with the disk-shaped bleaching geometry). The simulated fluorescence intensity values (black diamonds) were generated by adding Gaussian noise G(i) to the theoretical values I(i) (red dots) deduced from Equation (1). G(i) is a random number with the Gaussian probability distribution centered on 0 with the standard deviation k $\sqrt{I(i)}$ (zone delimited by the two dashed curves). In this example, $\tau = 3$ frame periods and k = 0.05.