

# Cherenkov Radiation Energy Transfer (CRET) from [<sup>18</sup>F]-Fluorodeoxyglucose to Subphthalocyanine Fluorophores

*Transfert de l'énergie de la radiation Cherenkov (CRET) du [<sup>18</sup>F]-Fluorodeoxyglucose aux Fluorophores de type Subphthalocyanine*

## SUPPORTING INFORMATION

Vivian Lioret, Richard A. Decréau\*

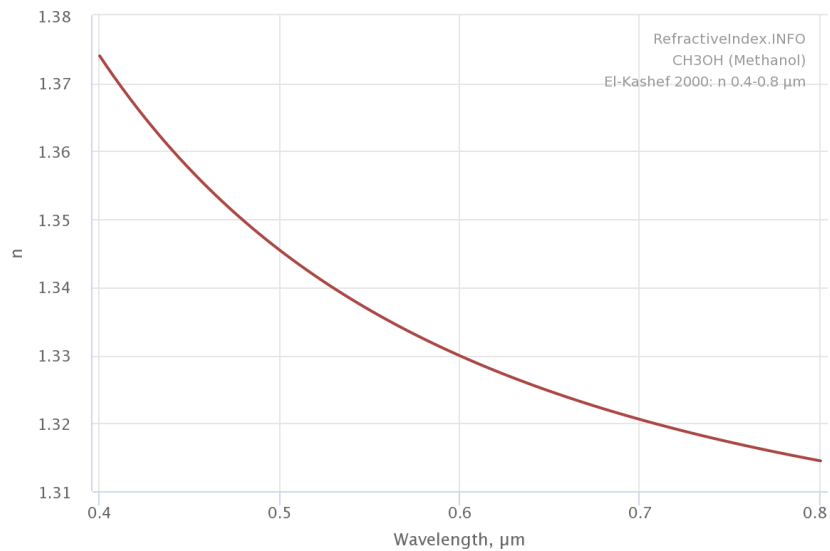
Université de Bourgogne, Institut de Chimie ICMUB, Sciences Mirande, 21078 DIJON, FRANCE

[Richard.Decreau@u-bourgogne.fr](mailto:Richard.Decreau@u-bourgogne.fr)

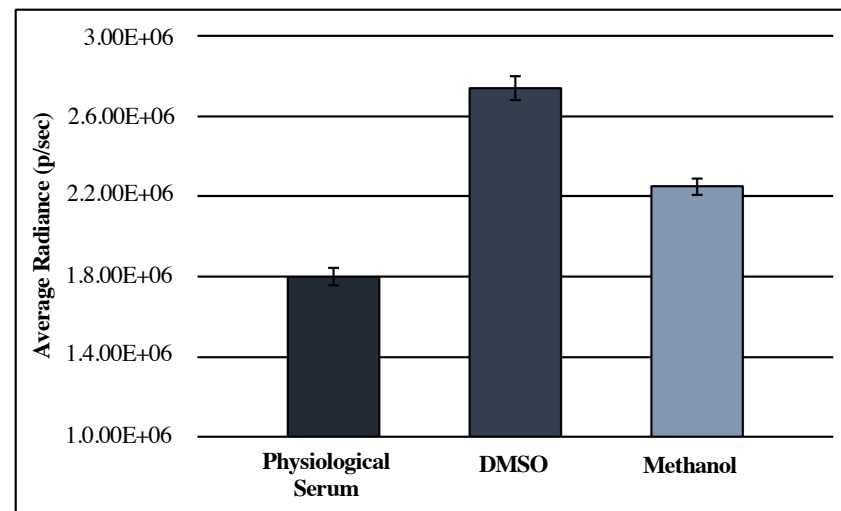
### Outline:

<u>Figure Number and description:</u>	<u>Page Number:</u>
Fig. S-1: RI of Methanol at various wavelengths....p.	S-2
Fig. S-2: FDG Radiance in various media.....p.	S-2
Fig. S-3: <sup>1</sup> H-NMR Spectrum of SUB-Cl (1).....p.	S-3
Fig. S-4: <sup>1</sup> H-NMR Spectrum of SUB-PH (2).....p.	S-4
Fig. S-5: <sup>1</sup> H-NMR Spectrum of SUB-Cl (3).....p.	S-5

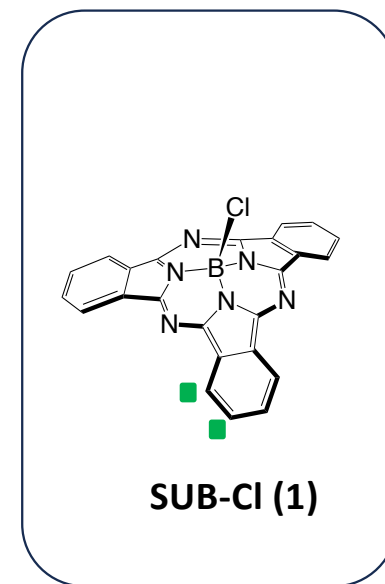
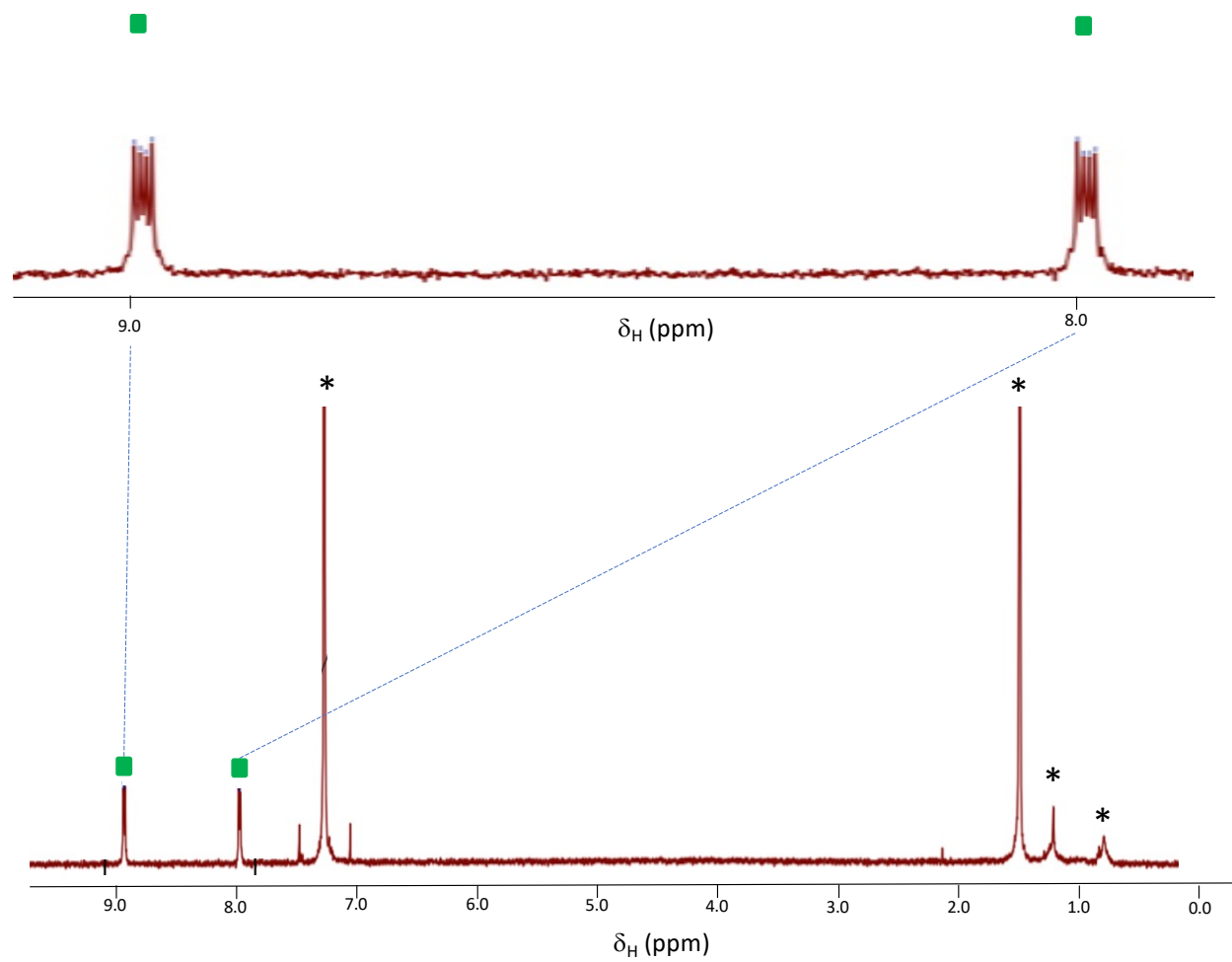
Subphthalocyanines: SUB-Cl (1), SUB-PH (2), SUB-COUM (3) have been synthesized according to the method reported in :  
a) Y. Bernhard, P. Winckler, R. Chassagnon, P. Richard, E. Gigot, J.-M. Perrier-Cornet, R. A. Decréau *Chem. Commun.*, 2014, **50**, 13975-13978; b) V. Lioret, Y. Rousselin, R. A. Decréau, *Dyes and Pigments* 2020, **183**, 108696.



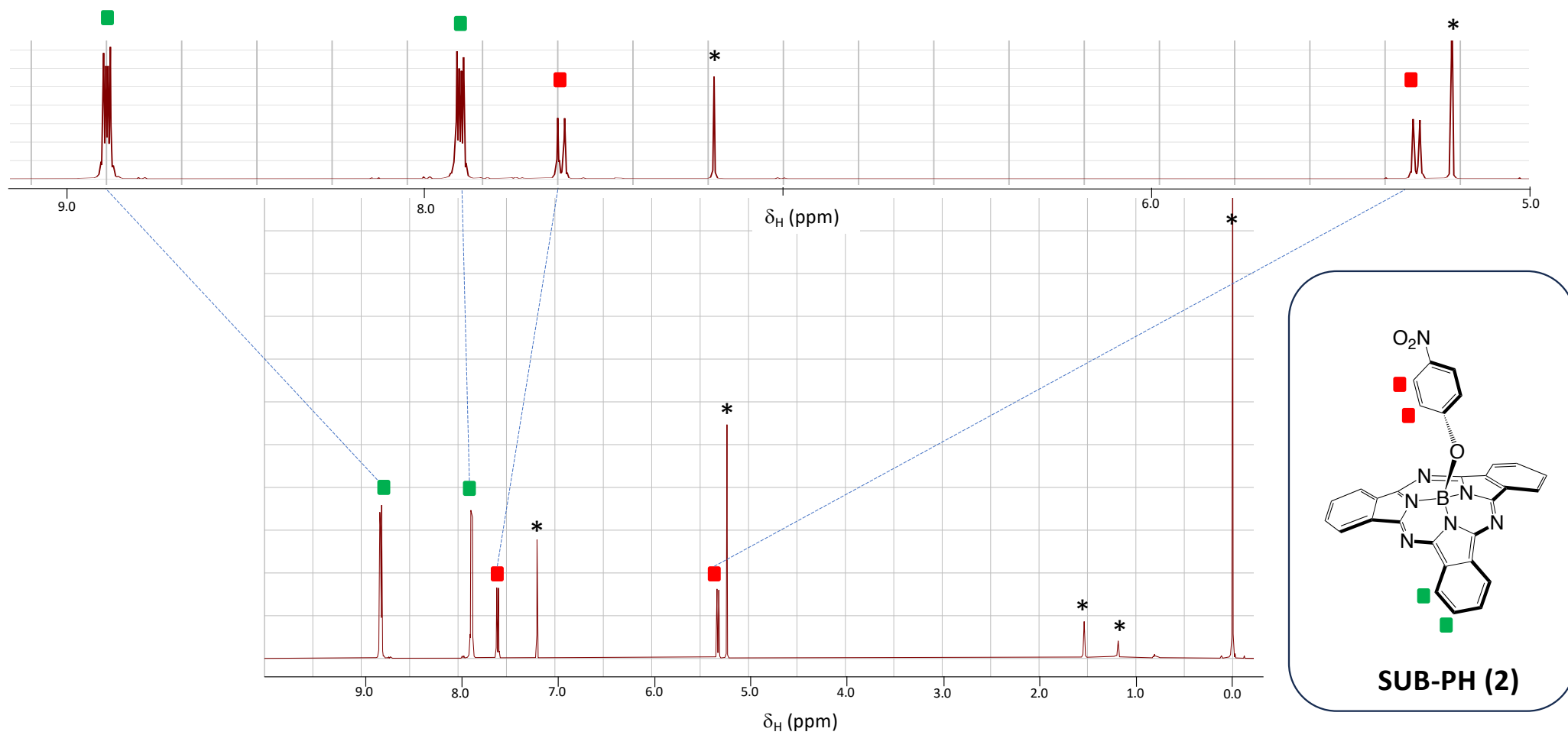
***Figure S-1: Refractive Index of Methanol as a function of wavelength (from H. El Kashef, Physica B, Condensed Matter, 2000, 279, 295-301)***



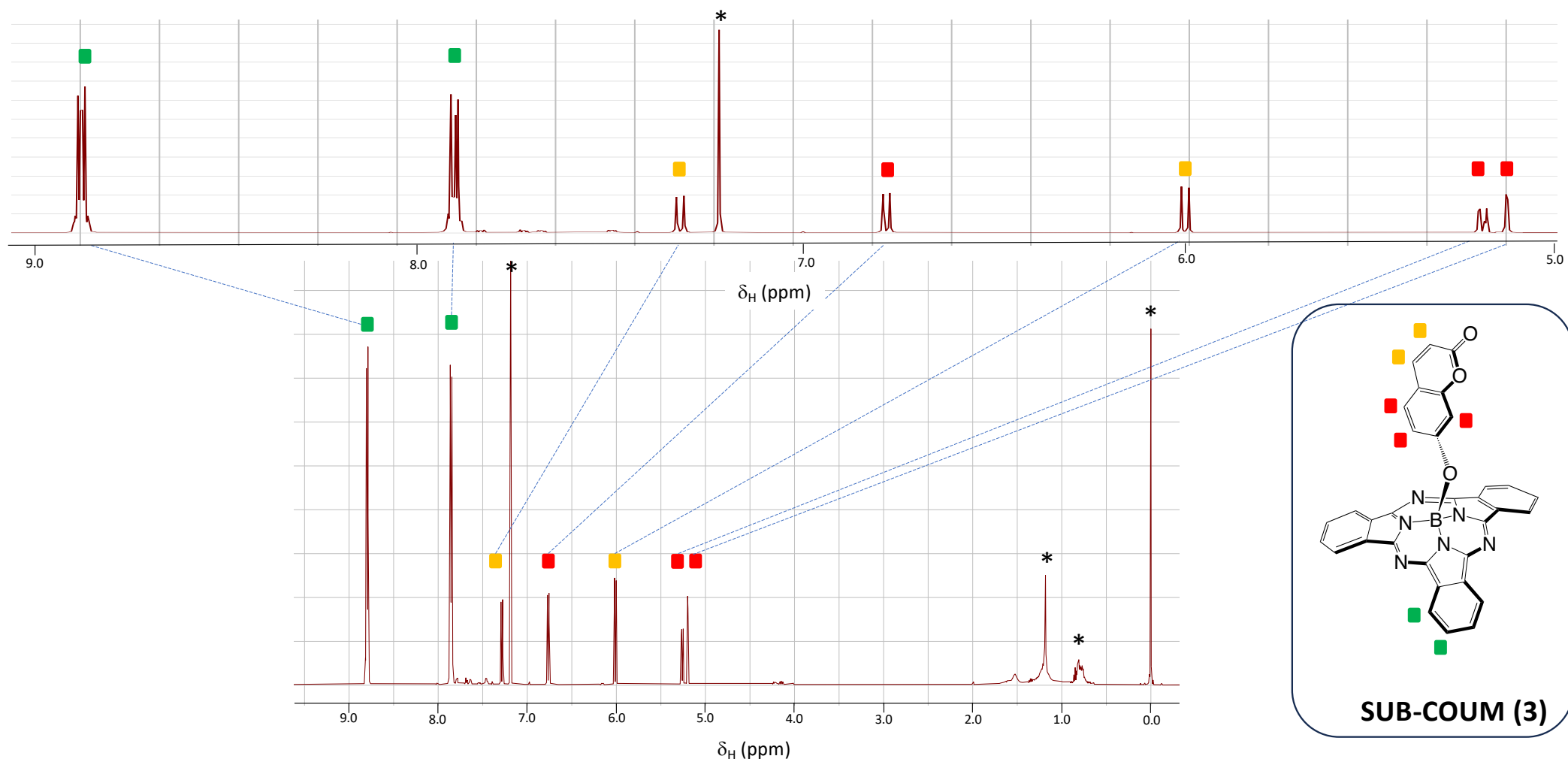
***Figure S-2: Histogram depicting the radiance from a solution of [<sup>18</sup>F]-FDG (10 MBq) in various solvents (using the « Open Filter » mode, and corresponding to Figure 6)***



***Figure S-3:  $^1\text{H}$  NMR spectrum of SUB-Cl (1) recorded in  $\text{CDCl}_3$  (500 MHz)***



***Figure S-4:  $^1\text{H}$  NMR spectrum of SUB-PH (2) recorded in  $\text{CDCl}_3$  (500 MHz)***



***Figure S-5:  $^1\text{H}$  NMR spectrum of SUB-COUM (3) recorded in  $\text{CDCl}_3$  (500 MHz.)***