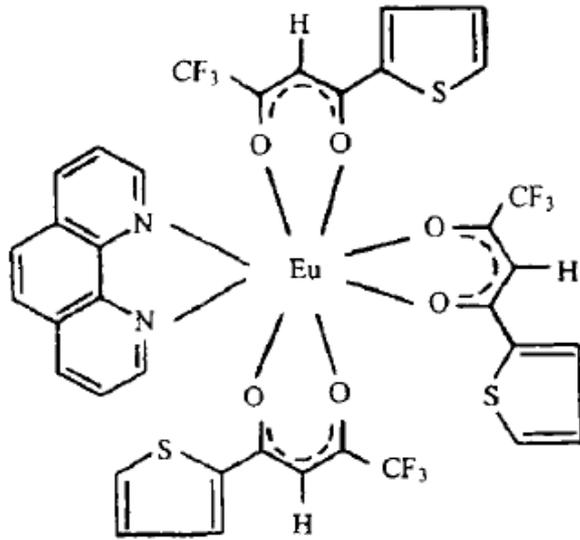
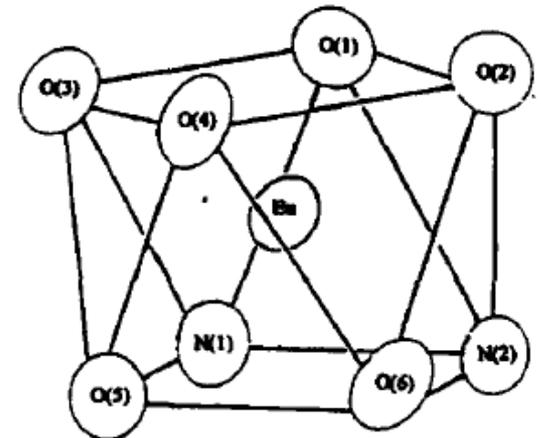
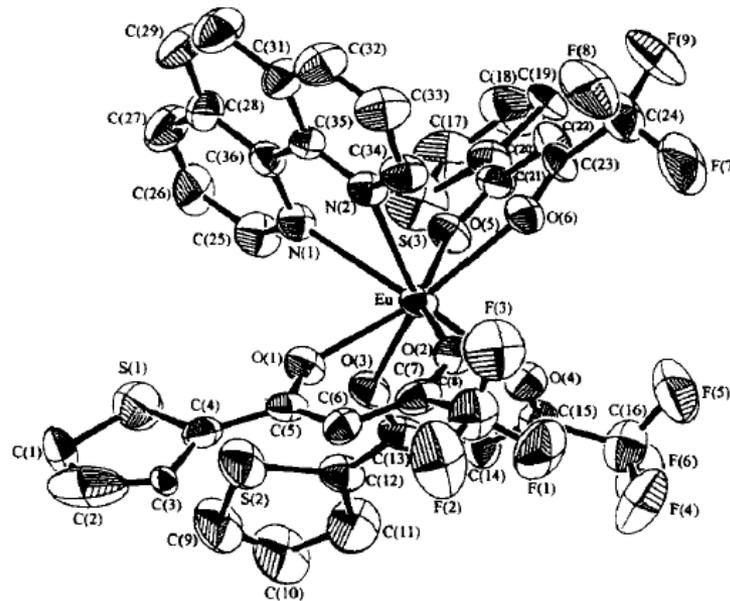


ESPERIENZA 7

SINTESI DI UN COMPLESSO LUMINESCENTE: [Eu(TTA)₃(phen)]



**Struttura allo stato solido di
[Eu(TTA)₃(phen)]**

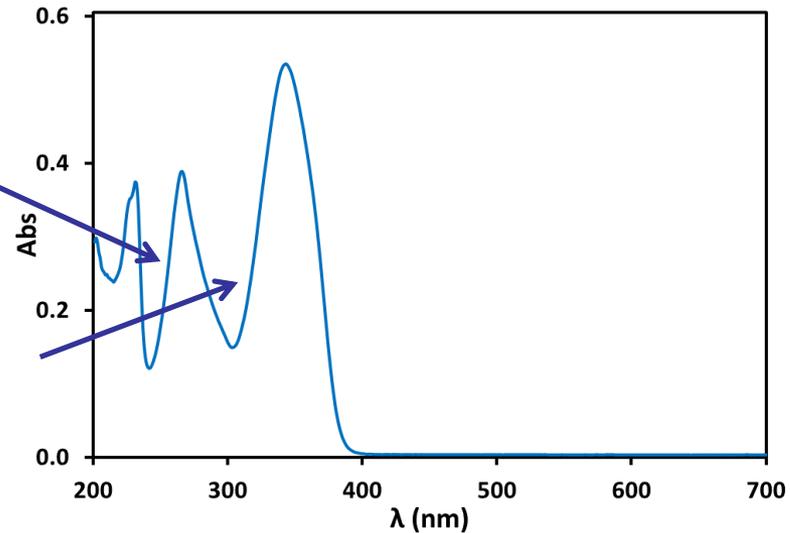


Spettri UV-Vis. di $[\text{Eu}(\text{TTA})_3(\text{phen})]$

Spettro di assorbimento:

Banda associata alla **phen**
($\lambda = 266 \text{ nm}$)

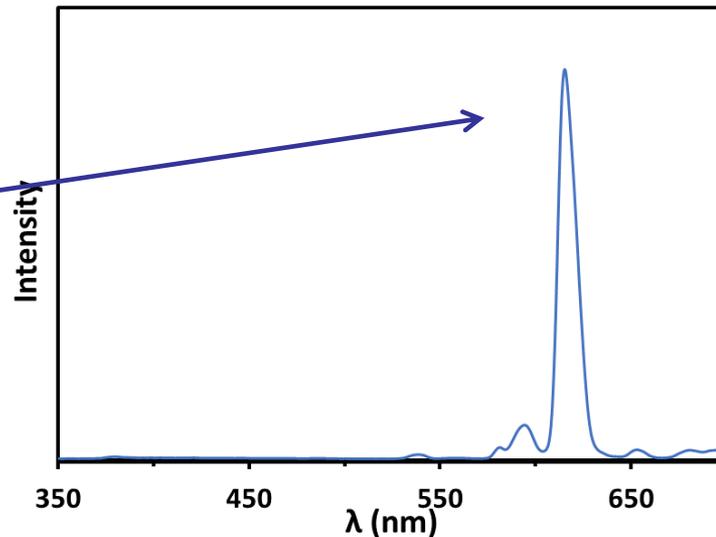
Banda associata a **TTA** nel
complesso ($\lambda = 340 \text{ nm}$)



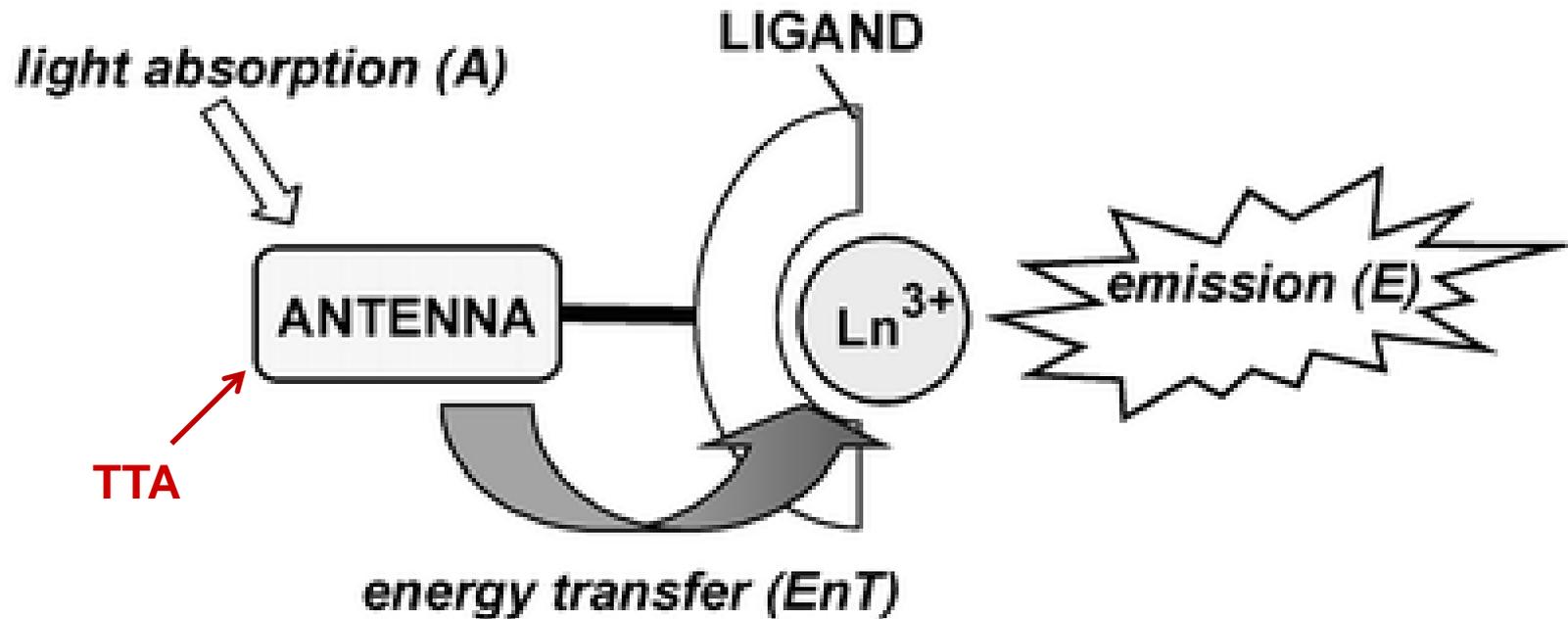
Spettro di emissione:

Banda di emissione del
complesso dovuta a
transizione ${}^7\text{F}_2 \leftarrow {}^5\text{D}_0$

($\lambda = 614 \text{ nm}$)



Sensibilizzazione (*antenna excitation*)

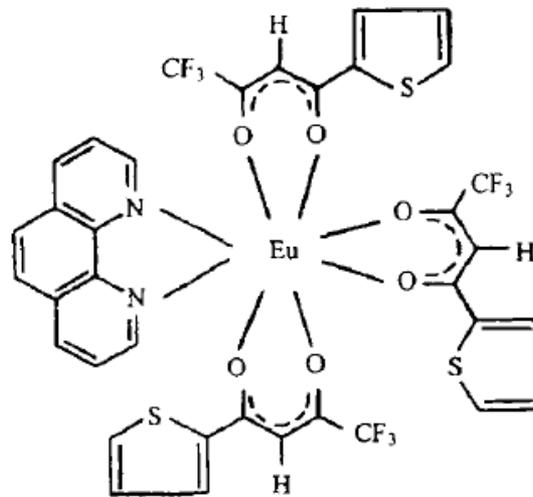


Spettri IR di [Eu(TTA)₃(phen)]

$\nu_{\text{C=O}}$ (cm⁻¹)

Legante TTAH

1645; 1662



1620; 1600