

Formation of Complexes of *f*-Elements with Electron-Withdrawing N-Heterocyclic Diamides: Extraction and Solution Photophysics

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UV-vis titration data in CH₃CN

Ligand 6Me2Py with Eu(NO₃)₃·6H₂O

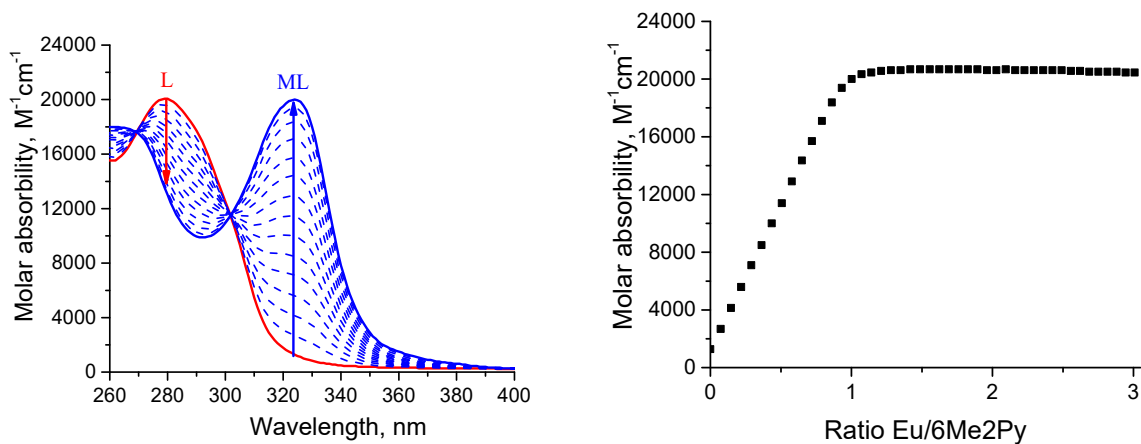


Figure S1. Spectrophotometric titration of 6Me2Py by Eu(NO₃)₃·6H₂O in acetonitrile solution: (left) spectrophotometric data, where red line – ligand spectrum, blue dashed lines – aliquots of Eu(NO₃)₃·6H₂O, blue line – europium complex, (right) titration curve at 323 nm.

Ligand 6Me2Py with Tb(NO₃)₃·5H₂O

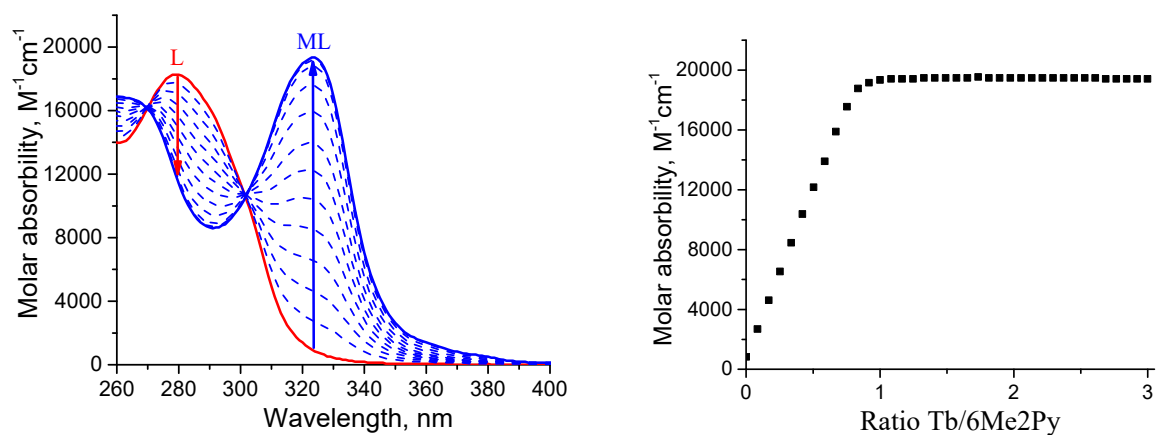


Figure S2. Spectrophotometric titration of 6Me2Py by Tb(NO₃)₃·5H₂O in acetonitrile solution: (left) spectrophotometric data, where red line – ligand spectrum, blue dashed lines – aliquots of Eu(NO₃)₃·6H₂O, blue line – terbium complex, (right) titration curve at 323 nm.

Ligand 4Py with $\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$

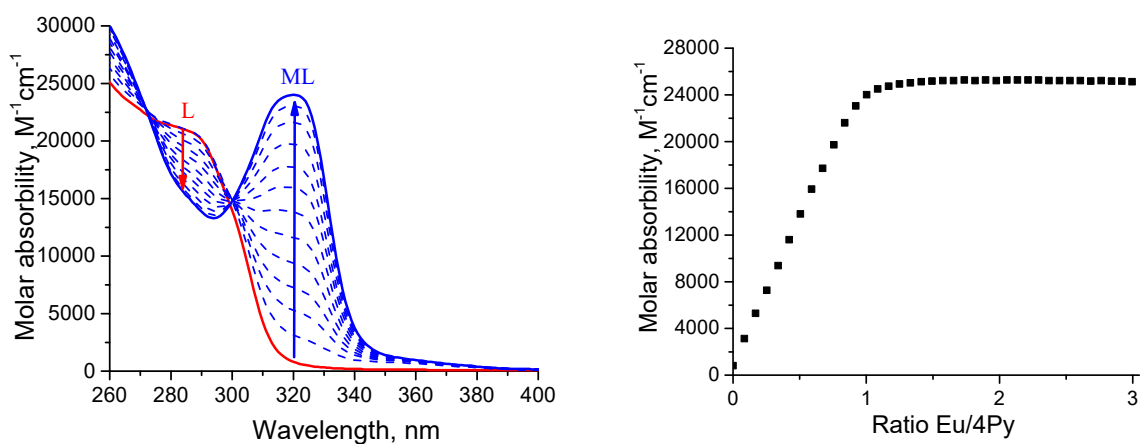


Figure S3. Spectrophotometric titration of 4Py by $\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ in acetonitrile solution: (left) spectrophotometric data, where red line – ligand spectrum, blue dashed lines – aliquots of $\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$, blue line – europium complex, (right) titration curve at 320 nm.

Ligand 4Py with $\text{Tb}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}$

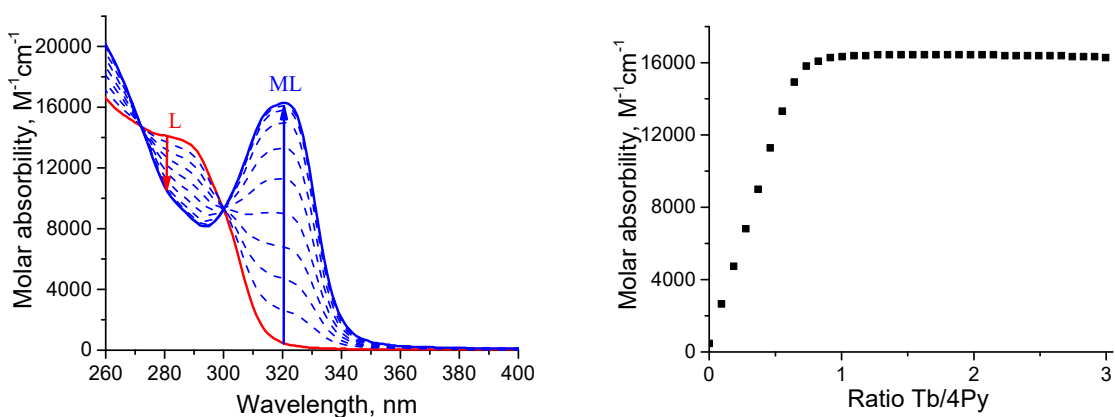


Figure S4. Spectrophotometric titration of 4Py by $\text{Tb}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}$ in acetonitrile solution: (left) spectrophotometric data, where red line – ligand spectrum, blue dashed lines – aliquots of $\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$, blue line – terbium complex, (right) titration curve at 321 nm.