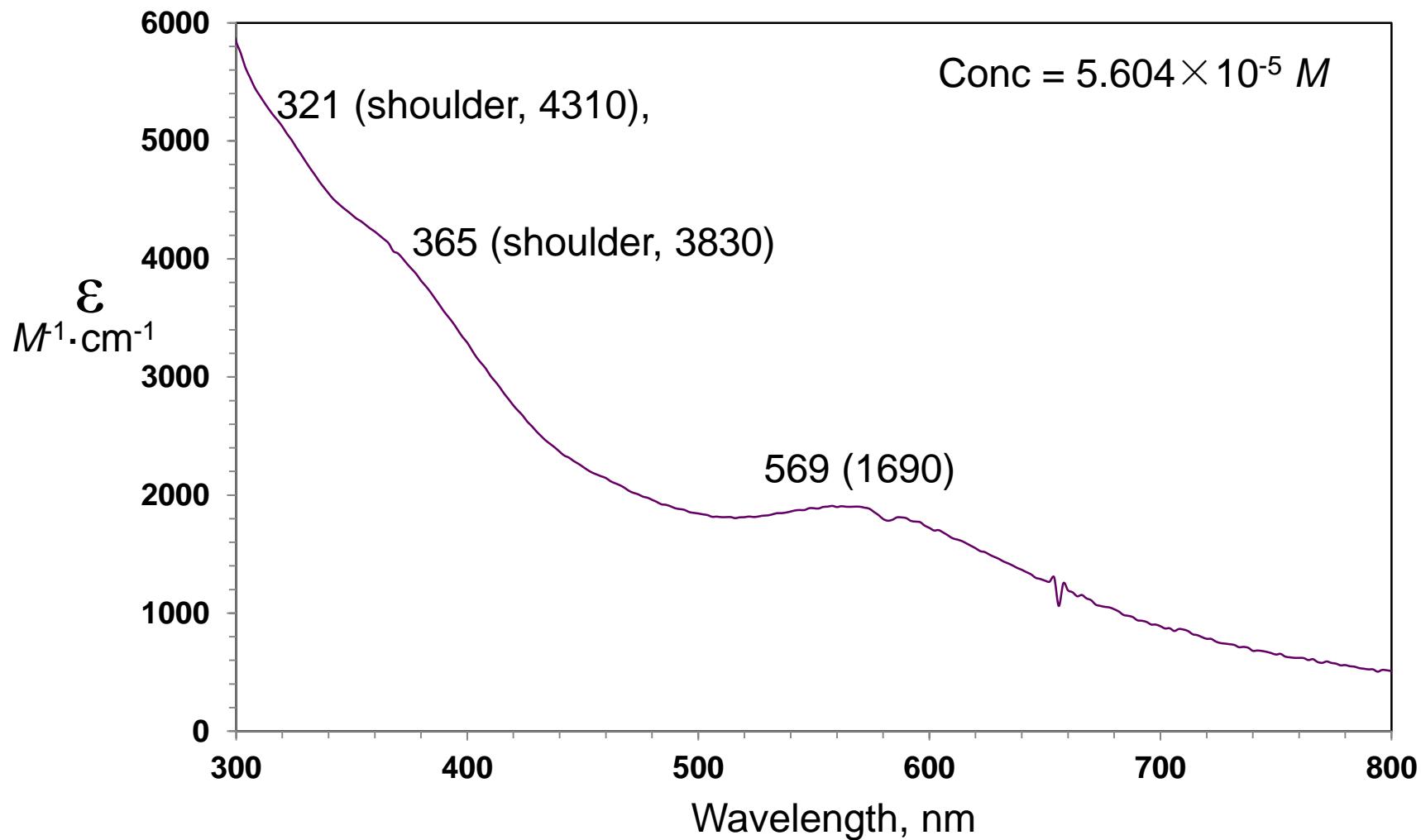


Supporting Information for

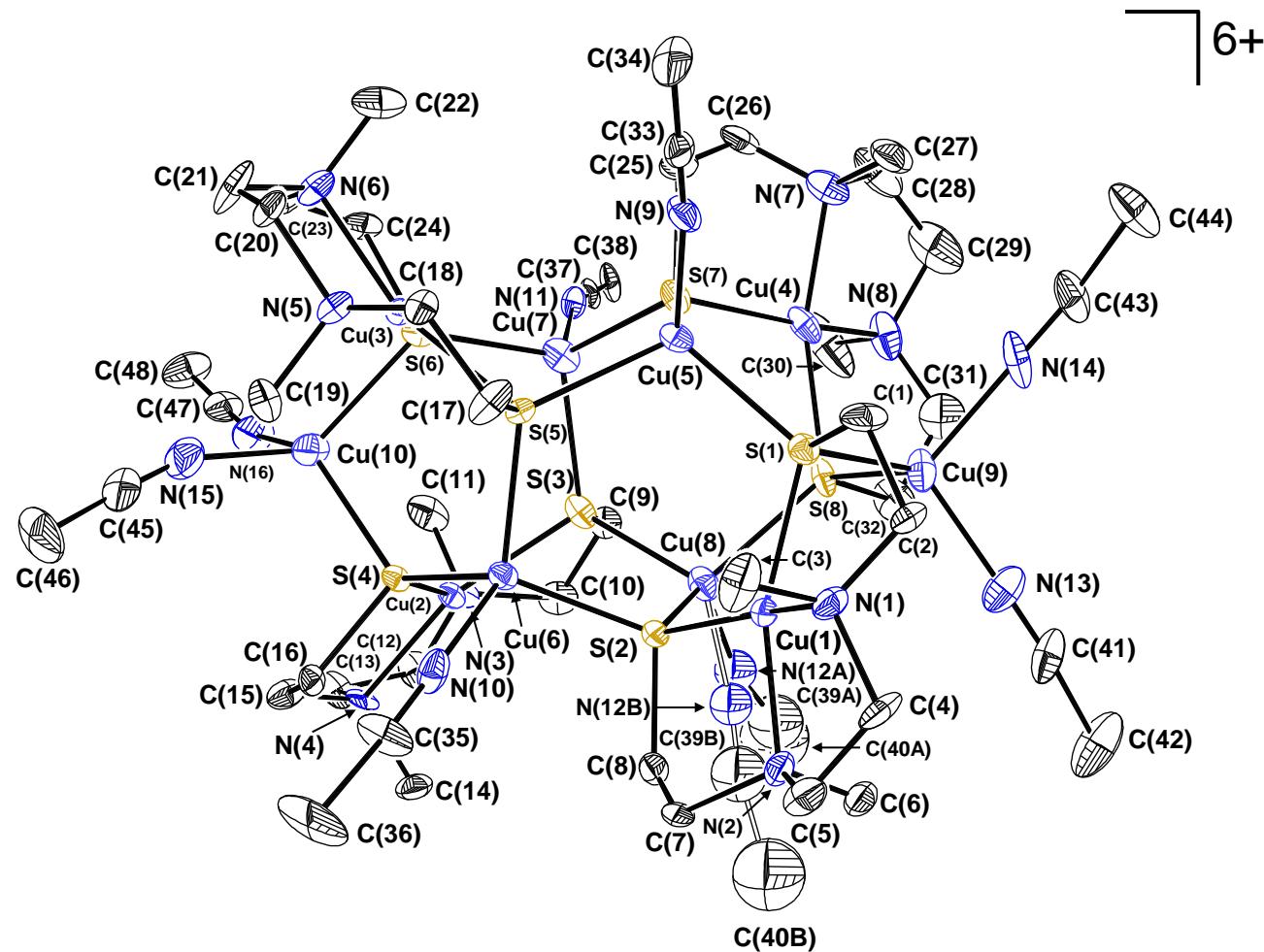
An S_4 -Symmetric Mixed-Valent Decacopper Cage Comprised of $[\text{Cu}^{\text{II}}(L\text{-S}_2\text{N}_2)]$ Complexes Bridged by $\text{Cu}^{\text{I}}(\text{MeCN})_n$ ($n = 1$ or 2) Cations

by Skylar J. Ferrara, Bo Wang and James P. Donahue

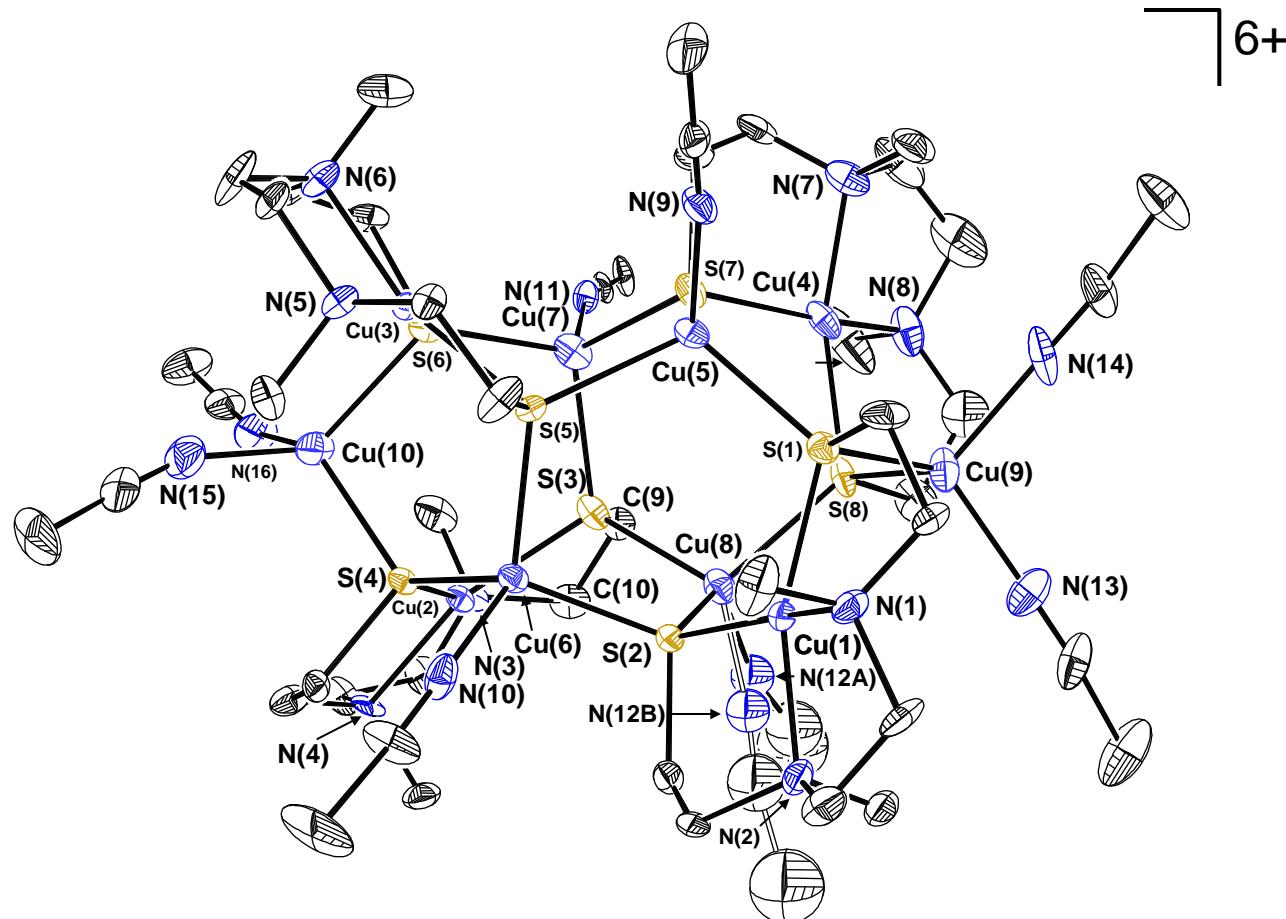
UV-vis Spectrum in MeCN of [(Cu^{II}(L-N₂S₂))₄(μ₂-Cu^I(MeCN)₂)₂(μ₃-Cu^I(MeCN))₄] [BF₄]₆·2.25MeCN



Atom Labeling for Cation 1 of [Cu₁₀(S(CH₂)₂N(Me)CH₂-)₂(MeCN)₈][BF₄]₆·(MeCN)_{2.25}

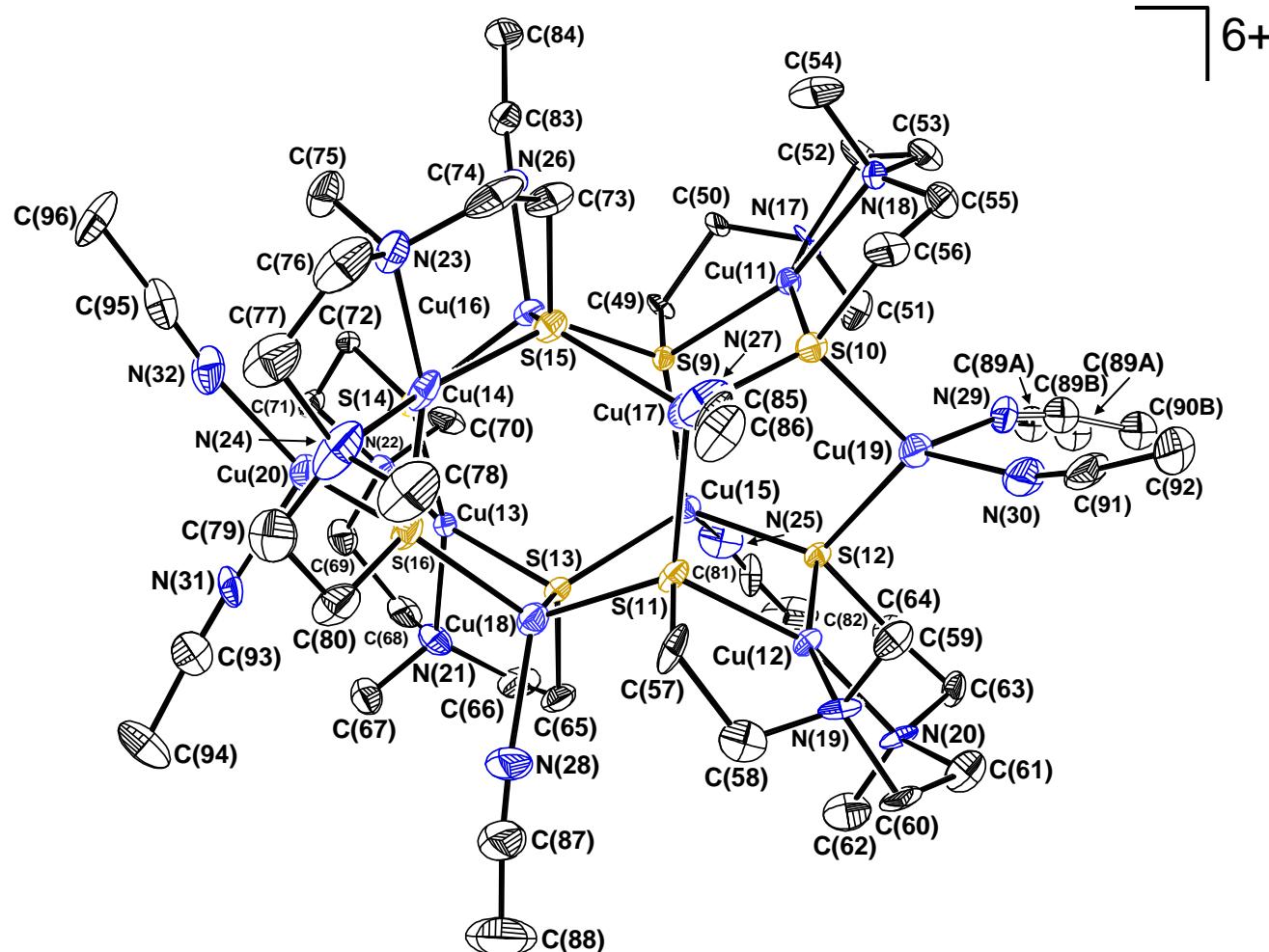


Partial Atom Labeling for Cation 1 of [Cu₁₀(S(CH₂)₂N(Me)CH₂-)₂(MeCN)₈][BF₄]₆·(MeCN)_{2.25}



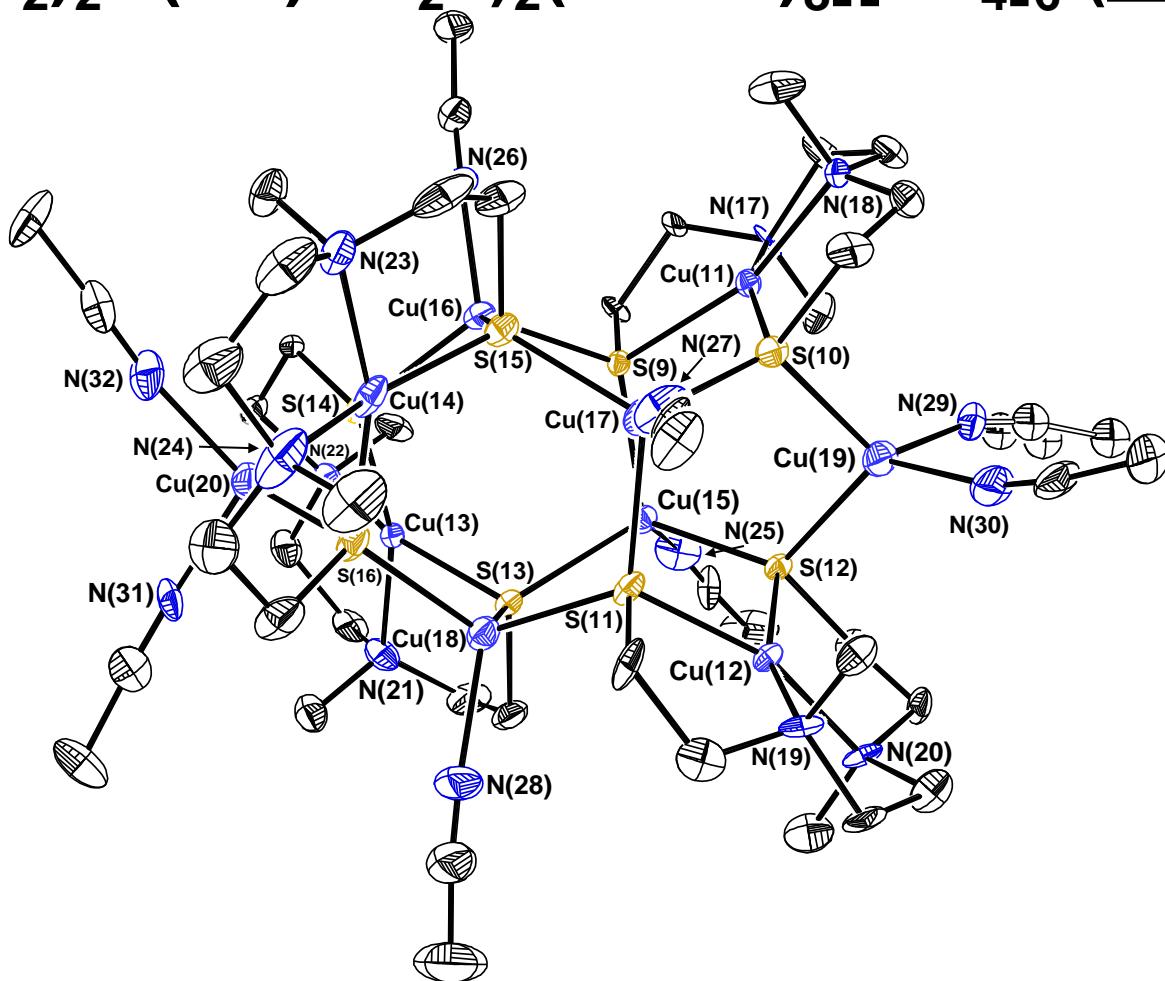
Thermal ellipsoid plot is drawn at the 40% probability level. Hydrogen atoms are omitted for clarity.

Atom Labeling for Cation 2 of [Cu₁₀(S(CH₂)₂N(Me)CH₂-)₂(MeCN)₈][BF₄]₆·(MeCN)_{2.25}



Thermal ellipsoid plot is drawn at the 40% probability level. Hydrogen atoms are omitted for clarity.

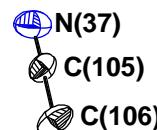
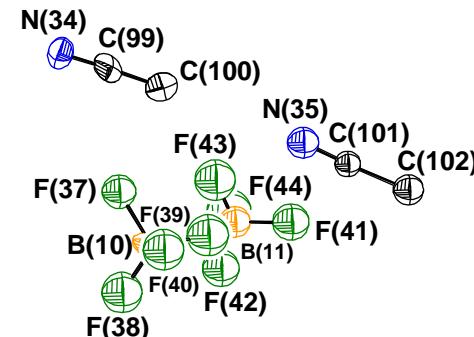
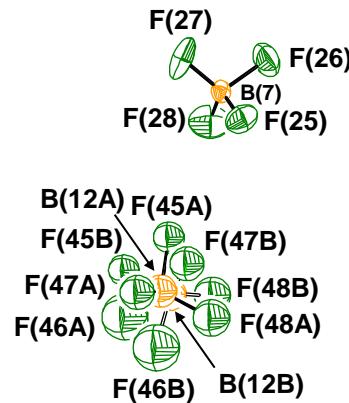
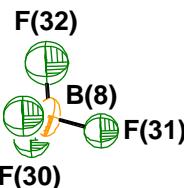
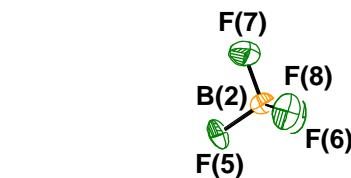
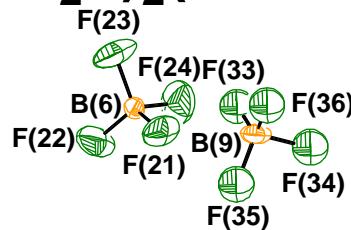
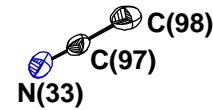
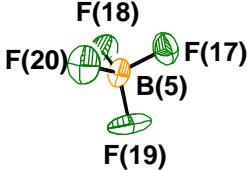
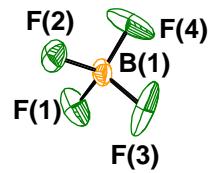
Partial Atom Labeling for Cation 2 of [Cu₁₀(S(CH₂)₂N(Me)CH₂-)₂(MeCN)₈][BF₄]₆·(MeCN)_{2.25}⁶⁺



Thermal ellipsoid plot is drawn at the 40% probability level. Hydrogen atoms are omitted for clarity.

Atom Labeling for $[\text{BF}_4]^{1-}$ Anions and Interstitial MeCN

$[\text{Cu}_{10}(\text{S}(\text{CH}_2)_2\text{N}(\text{Me})\text{CH}_2^-)_2(\text{MeCN})_8][\text{BF}_4]_6 \cdot (\text{MeCN})_{2.25}$



Thermal ellipsoid plot is drawn at the 40% probability level. Hydrogen atoms are omitted for clarity.