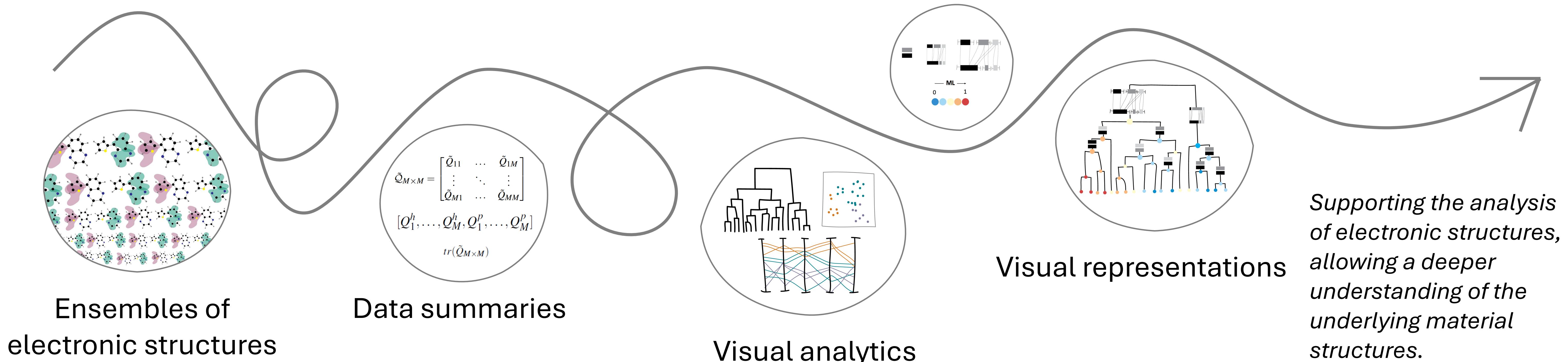


Data abstractions for visual analysis of electronic structures

Signe Sidwall Thygesen, Talha Bin Masood, Ingrid Hotz
Scientific Visualization Group, Linköping University

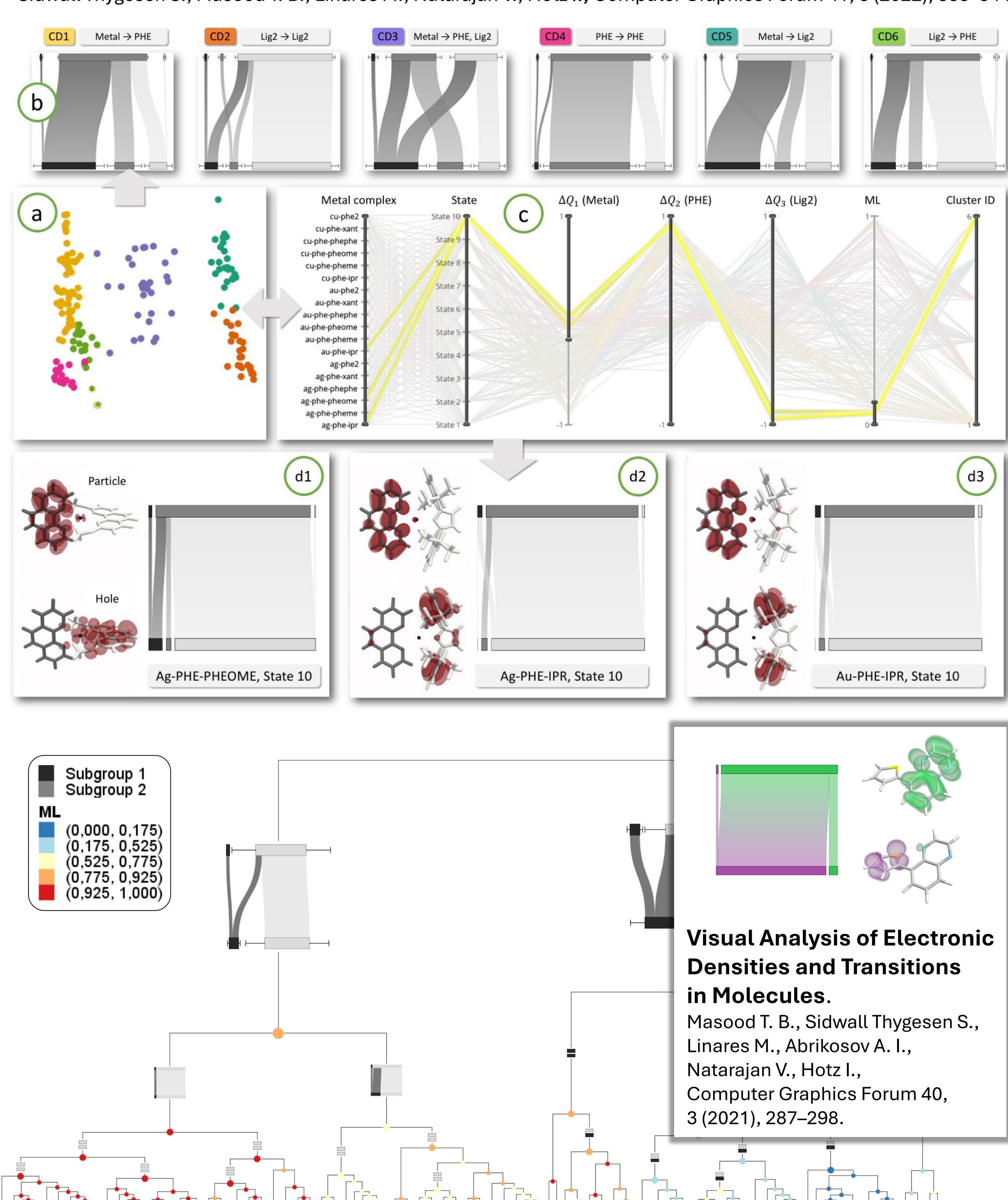
Long-term collaborations enabling scientific understanding



Molecular electronic transitions

Enabling exploration and characterization

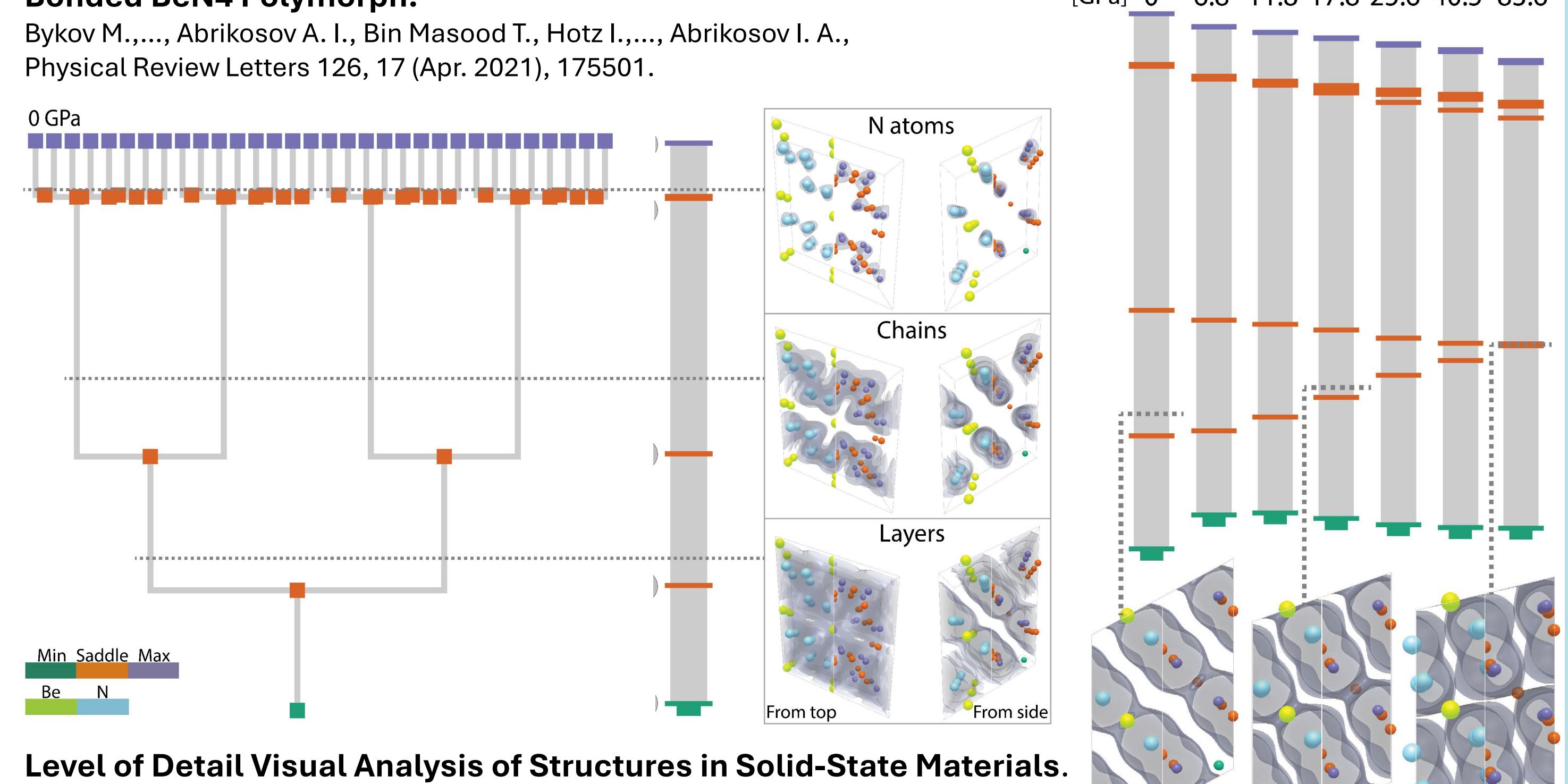
Level of Detail Exploration of Electronic Transition Ensembles using Hierarchical Clustering.
Sidwall Thygesen S., Masood T. B., Linares M., Natarajan V., Hotz I., Computer Graphics Forum 41, 3 (2022), 333–344.



Layered materials

Capturing structural differences

High-Pressure Synthesis of Dirac Materials: Layered van der Waals Bonded BeN Polymorph.
Bykov M.,..., Abrikosov A. I., Bin Masood T., Hotz I.,..., Abrikosov I. A., Physical Review Letters 126, 17 (Apr. 2021), 175501.



Level of Detail Visual Analysis of Structures in Solid-State Materials.
Sidwall Thygesen S., Abrikosov A. I., Steneteg P., Masood T. B., Hotz I., In EuroVis 2023 - Short Papers (2023), The Eurographics Association.

with Impurities

