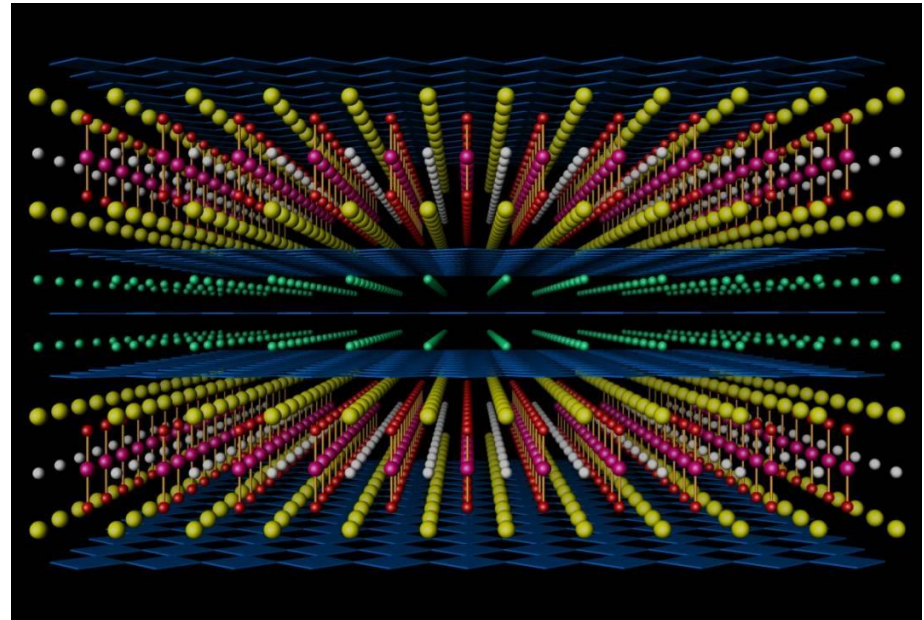


Center for Emergent Superconductivity (CES)

Peter D. Johnson (Brookhaven National Laboratory)

The central mission of CES is the development of an understanding of High T_c Superconductivity that will enable the prediction and perfection of new High T_c materials for use in a range of energy technologies including applications in generation, storage and transmission.

<http://www.bnl.gov/energy/ces/>



Legend for the 3D visualization:
● Oxygen (red)
● Mercury (grey)
● Calcium (green)
● Barium (yellow)
— Cu-O Sheets (blue)

RESEARCH PLAN

Research to design superconductors with enhanced performance will be directed towards three key areas: (1) develop techniques to create new classes of superconducting materials by design, (2) understand the mechanism of high-temperature superconductivity, and (3) understand the current carrying limiting properties of existing high-temperature superconductors.



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