
TOMAŽ PISANSKI, University of Ljubljana, Slovenia

Flat benzenoid complexes

Benzenoids form an important family of chemical graphs. Several other families, such as coronenes, helicenes, tubulenes, etc. that generalize benzenoids play an important role in theoretical chemistry. This talk introduces flat benzenoid complexes as a language in which all these generalizations may be expressed. Roughly speaking a flat benzenoid complex is a structure that is locally benzenoid. We present a basic theory of flat benzenoid complexes. A special emphasis will be on catacondensed flat benzenoid complexes having the property that all vertices belong to the boundary of the complex. This is work in progress with Patrick Fowler and Nino Bašić.