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Jean E Taylor* (jtaylor@cims.nyu.edu). *Archimedean solids and quasigeometric descriptions of atomic positions in quasicrystals.*

Quasicrystals are physically-occurring materials which are nonperiodic and yet have strong signals of order as revealed by diffraction. Mathematical descriptions of them can be downright beautiful. The role of icosahedral symmetry in the diffraction pattern, and of icosahedral clusters in materials, are active areas of speculation and research. (Received January 12, 2014)