

# Aromatic and antiaromatic spherical structures: Use of long-range magnetic behavior as an aromatic indicator for bare icosahedral [Al@Al<sub>12</sub>]<sup>-</sup> and [Si<sub>12</sub>]<sup>2-</sup> clusters

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The long-range characteristics of the induced magnetic field in the bare icosahedral [Al@Al<sub>12</sub>]<sup>-</sup> and [Si<sub>12</sub>]<sup>2-</sup> clusters reveal inherent characteristics for spherical aromatic and antiaromatic systems. Here, we extend the shielding cone property to these highly symmetrical inorganic examples to achieve a suitable indicator for aromaticity as a reliable method for evaluating the aromaticity of clusters containing interstitial atoms. © the Owner Societies 2017.