## **Chirality and Topology**

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Chirality is a very active field of research in organic chemistry, closely linked to the concept of symmetry. Topology, a wellestablished concept in mathematics, has nowadays become essential to describe condensed matter [1,2]. At its core are chiral electron states on the bulk, surfaces and edges of the condensed matter systems, in which spin and momentum of the electrons are locked parallel or anti-parallel to each other. Magnetic and non-magnetic Weyl semimetals, for example, exhibit chiral bulk states that have enabled the realization of predictions from high energy astrophysics involving the chiral quantum number, such as the chiral anomaly, the mixed axial-gravitational anomaly and Chiral topological crystals axions [3-5]. exhibit excellent chiral surface states [6,7] and different orbital angular momentum for the enantiomers, which can advantageous in catalysis. The potential for connecting chirality as a quantum number to other chiral phenomena across different areas of science, including the asymmetry matter and antimatter homochirality of life, brings topological materials to the fore [8].

## References

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