Gabi Zafrir. On the classification of SCFTs with Q>8 supercharges and reflection groups

Monday, 9 September 2024 15:30 (1 hour)

The classification of CFTs is an interesting QFT problem. While in general quite difficult, progress can be made if sufficient symmetry, and notably supersymmetry, is present. In this talk I will review the attempt to classify SCFTs with more than 8 supercharges in dimensions three to six. I will highlight a connection between SCFTs in this class and a certain class of discrete groups, known as reflection groups. It is hoped that this relation will be of help in the classification of this class of SCFTs and in better understanding their properties.