

## **A novel take on topography**

Davide Dal Martello

Conway's topograph is an amusing—and powerful—graphical tool devised to capture both the values of a given quadratic form and its whole equivalence class. We revisit this concept via modern combinatorial lenses, developing a much more general framework that leads to striking applications beyond the original representation problem for quadratic forms (e.g., reduction theory and Painlevé equations).