## Abstract <br> A Latin Square in the 24-Cell

## Dieter Betten

Math. Sem. Univ. Kiel

One of the six regular polytopes in $R^{4}$ is the 24-cell which consists of 24 octohedra. We define suitable subsets of the 24 -element set and identify diametral pairs of elements. In this way we arrive at a regular linear space on 12 points, which turns out to be the non-cyclic Latin Square of order 4. In a similar way we define for the 120-cell a regular linear space on 60 points.

