1056-05-146   **Chencong Bao**, **Camila Friedman-Gerlicz** and **Peter McGrath***
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Matroids, Geometry, Symmetry and the 4th Dimension.

We describe the automorphism group of a certain rank 4 matroid on 60 points that arises from the root system H4. There is a close connection to two dual regular 4-dimensional solids: the 120-cell and the 600-cell. (Received August 01, 2009)