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**On the equivalence of some solution concepts in spatial voting theory**

We prove that, for a spatial voting setting with non-Euclidian preferences, the locally uncovered set, proposed by Schofield (1999), is closely related to the dimension-by-dimension median of Shepsle (1979). It is shown that every point in the interior of the locally uncovered set can be supported as a dimension-by-dimension median by some set of basis vectors for the space of alternatives. Moreover, for a two dimensional policy space, the locally uncovered set and the set of dimension-by-dimension medians coincide.