1053-35-33   **Richard Mikula*** (`rmikula@lhup.edu`), 401 W. 4th Street, Lock Haven, PA 17745.
PRESCRIBING GAUSS-KRONECKER CURVATURE ON GROUP INVARIANT CONVEX HYPERSURFACES.

We consider the problem of prescribing Gauss-Kronecker curvature in Euclidean space. In particular, by a degree theory argument, we prove the existence of a closed convex hypersurface in R3 which has its Gauss-Kronecker curvature equal to F, a prescribed positive function, which is invariant under a fixed-point free subgroup G of the orthogonal group O(3), requiring that F satisfy natural growth assumptions near the origin and at infinity. (Received July 07, 2009)