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Lowell Abrams* (labrams@gwu.edu), 11505 Gilsan Street, Silver Spring, MD , and **Daniel Slilaty**. *Symmetric Spherical Grids*.

If an embedding of a graph G in the sphere is a quadrangulation of the sphere, then G is necessarily bipartite. Assuming that G has minimum vertex degree 3 and that all vertices in one block of $V(G)$ have degree 4, we refer to G as a spherical grid. We discuss general structural properties in spherical grids, then use these to completely characterize rotationally symmetric spherical grids having two vertices of degree n , $2n$ vertices of degree 3, and all other vertices of degree 4. Furthermore, we show how to represent all possible examples as nets. (Received September 12, 2017)