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Christine Escher*, Department of Mathematics, Oregon State University, Corvallis, OR 97331,
and **Catherine Searle**. *Non-negative curvature and torus actions*.

The classification of Riemannian manifolds with positive and non-negative sectional curvature is a long-standing problem in Riemannian geometry. In this talk I will give an overview of known results and summarize joint work with Catherine Searle on the classification of closed, simply-connected, non-negatively curved Riemannian manifolds admitting an isometric, effective, isotropy-maximal torus action. This classification has many applications, in particular the Maximal Symmetry Rank conjecture holds for this class of manifolds. (Received January 15, 2021)