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Yu Yuan* (yuan@math.washington.edu), University of Washington, Department of Mathematics
Box 354350, Seattle, WA 98195. *Exterior Bernstein and Bernstein problems for Hessian
equations.*

We survey some new and old rigidity results for Hessian equations such as special Lagrangian equations, Monge-Ampere equations, and symmetric Hessian equations. In particular, a unified approach to quadratic asymptote of solutions over exterior domains will be presented. Special Lagrangian and Monge-Ampere equations are the potential equations for minimal and maximal "gradient" graphs in Euclid and pseudo-Euclid spaces respectively. (Received February 04, 2018)