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Murat Akman, Jasun Gong, Jay Hineman, John Lewis and Andrew Vogel*
(alvogel@syr.edu), 215 Carnegie, Syracuse, NY 13244. *The Brunn-Minkowski inequality and a Minkowski problem for nonlinear capacity.* Preliminary report.

This talk will focus on the Minkowski problem for classes of equations similar to and including the p-Laplace equations for $1 < p < n$. The minimization problem that leads to the solution will be described along with a discussion of why the minimizing set has nonempty interior for the full range $1 < p < n$. We will also discuss the Brunn-Minkowski inequality which leads to uniqueness arguments for the Minkowski problem (Received February 12, 2018)