1116-14-1439   **Michael Joswig** and **Joe Kileel*** (`jkileel@math.berkeley.edu`), Department of Mathematics, UC Berkeley, CA 94720, and **Bernd Sturmfels** and **André Wagner**. *Rigid Multiview Varieties.*

The multiview variety from computer vision is generalized to images by n cameras of points linked by a distance constraint. The resulting five-dimensional variety lives in a product of $2n$ projective planes. We determine defining polynomial equations, and we explore generalizations to scenarios of interest in applications. (Received September 19, 2015)

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