1023-05-1469   **Darren B. Parker*** (`dbparker@udayton.edu`), Department of Mathematics, 300 College Park, Dayton, OH 45429, and **Randy F. Westhoff** and **Marty J. Wolf**. *Helly and Radon Independence in Clone-Free Multipartite Tournaments.* Preliminary report.

In the theory of convexity spaces, a primary goal is to study the relationships between various convex invariants, such as the Helly number and Radon number. Each of these numbers is based on some notion of independence. We study these invariants in the context of two-path convexity in multipartite tournaments. We use a structural result on convexly independent sets of vertices to determine when a set of vertices is both Helly independent and Radon independent. We obtain conditions on the multipartite tournament for the Helly number and Radon number to be equal. (Received September 26, 2006)