1014-62-23   **Roger B. Nelsen*** (`nelsen@lclark.edu`), Department of Mathematical Sciences, Lewis & Clark College, Portland, OR 97219-7899. *Extremes of Nonexchangeability.*

For identically distributed random variables X and Y with joint distribution function H, we show that the supremum of $|H(x, y) - H(y, x)|$ is 1/3. Using copulas, we define a measure of nonexchangeability, and study maximally nonexchangeable random variables and copulas. In particular, we show that maximally nonexchangeable random variables are negatively correlated in the sense of Spearman's rho. (Received May 20, 2005)