1020-60-40   **Elizabeth Meckes*** (`meckes@math.stanford.edu`), Department of Mathematics, 310 Malott Hall, Cornell University, Ithaca, NY 14853-4201. *An infinitesimal version of Stein's method of exchangeable pairs.*

I will discuss a modification of Stein's method of exchangeable pairs for normal approximation of random variables with continuous symmetries. The method will be illustrated with several examples, including distributions of projections of spherically symmetric distributions on $\mathbb{R}^n$ and distributions of projections of Haar measure on the compact classical matrix groups. (Received August 03, 2006)