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Manfred Denker* (denker@math.psu.edu), Mathematics Department, Penn State University, State College, PA 16802. *Some new results on martingale approximation for stationary processes.* Preliminary report.

We use Gordin's martingale approximation to obtain new central limit theorems for the stationary solution of random affine transformations and for partial sums of higher dimensional kernels (von Mises statistics) when the sampling is stationary. The work is jointly with Dehling, Gordin and Iwata. (Received June 02, 2010)