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Limit properties for infinite transformations and return time stochastic processes

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This will be a review of some distributional and pointwise limit properties of some infinite transformations (and hence their return time stochastic processes) and

- some new applications of the Darling-Kac method to "weakly pointwise dual ergodic" transformations yielding e.g. the stable limit theorems and (other) law of the iterated logarithm for certain positive stationary processes (work in progress with Roland Zweimuller);
- a distributional limit theorem for transformations like the Hajian-Ito-Kakutani transformation (work in progress with Omri Sarig).