We've seen some different strategies for sampling difficult posteriors, such as an affire-invariant sampling approach (encee) and a Hermodynamic approach (possible tempering) · One of the most widespread techniques in contemporary samplers in Hamiltonian Monte Carlo, or HMC.

- Well look at some visualizations as motivation, Pen consider some examples using pymc3 We return to be excellent set of interactive demis by Chiffing of https://chi-fing.github.ib/mcmc-domof and Poir allaptation by Richard McElreath at http://elevanth.org/blog/2017/1/28/ build-a-better-markov-chain/. These are linked on the 8705 Carmen visitalization page. The McElreath blog piece forcefully advocates abundaning Munopalis Hastings sumpling in towar of HMC. Let's take a look. First recall he Random Walk MH. This is diffusion (random walk mft.

This is diffusion (random walk) so not efficient in exploring.

The space and reads special trining to avoid the many rejections.

The donat shape in the simulation is common in higher dimensions and it is difficult to explore the gansidur a multidimensional uncornduted gaussium. In spherical coordinates the distribution a me-17203 which is peaked away from n=0.)