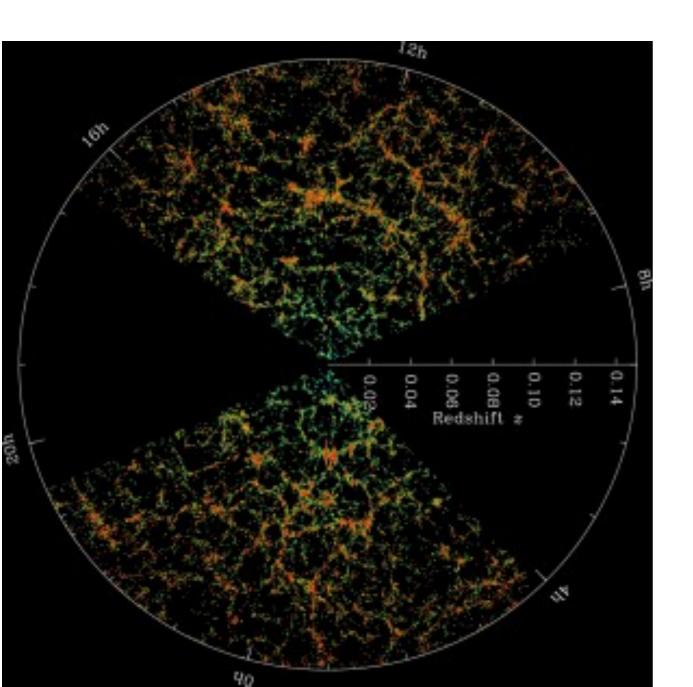
Introducción a Markov-Chain Monte Carlo y visualización con seaborn

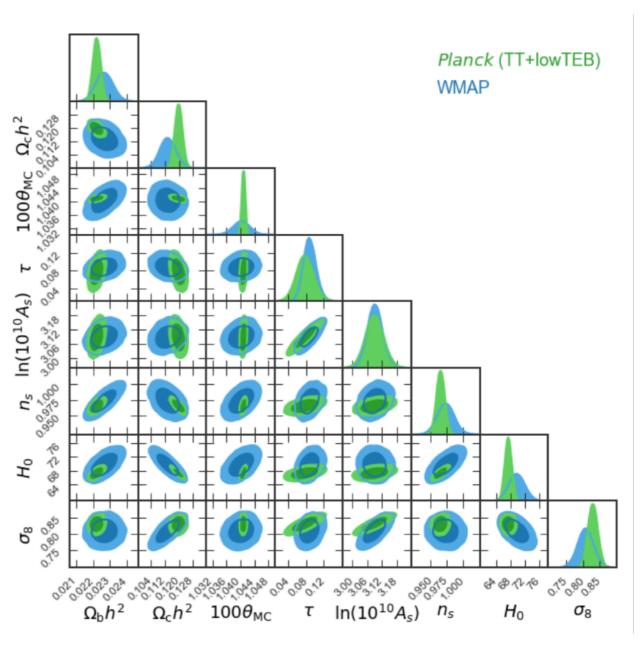
Oleg S. Burgueño Gerardo olegs@fisica.ugto.mx





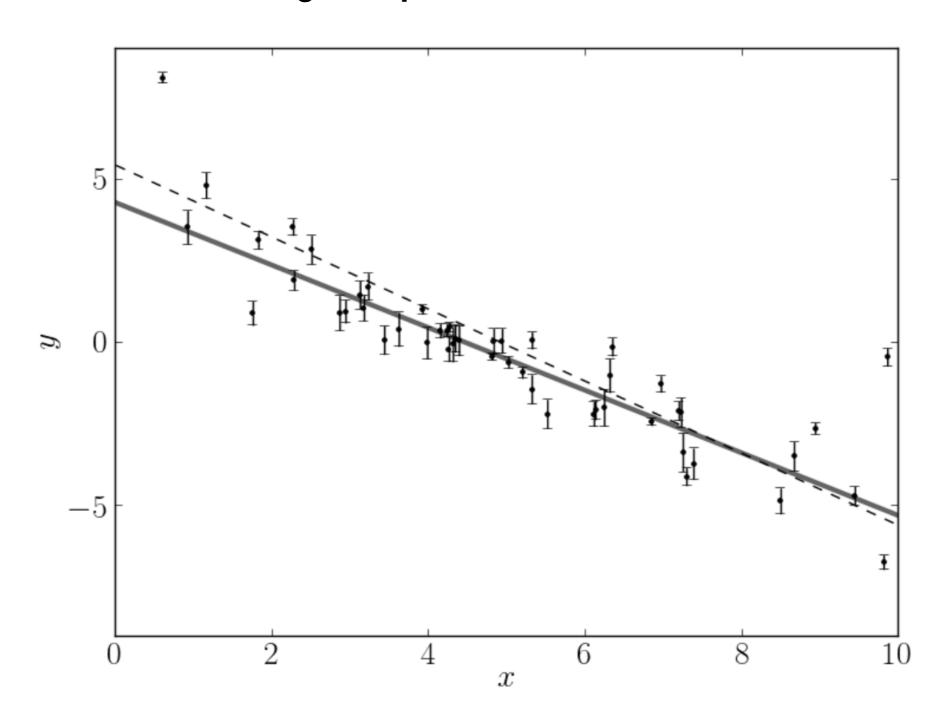
Un poco en lo que trabajo

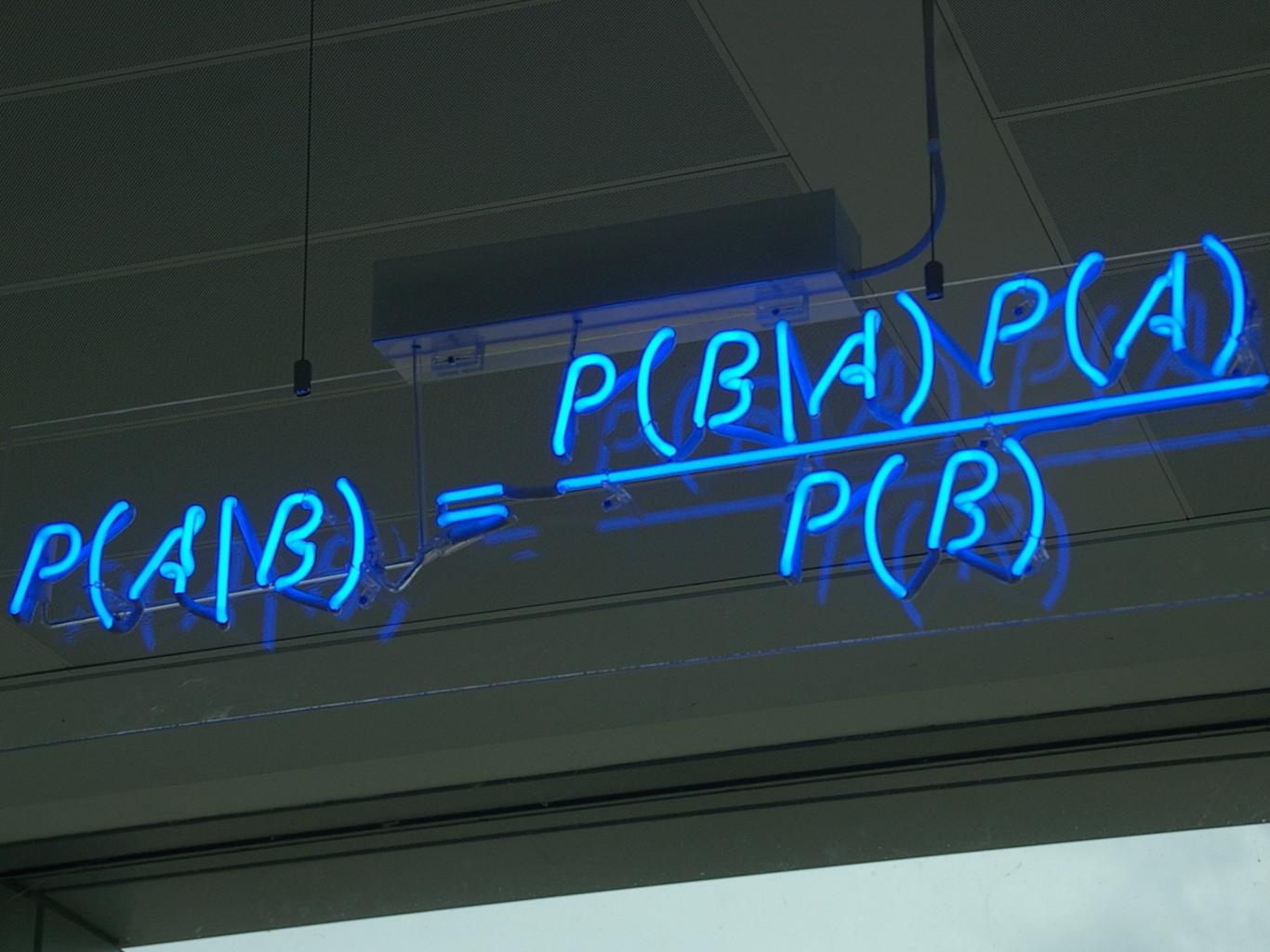


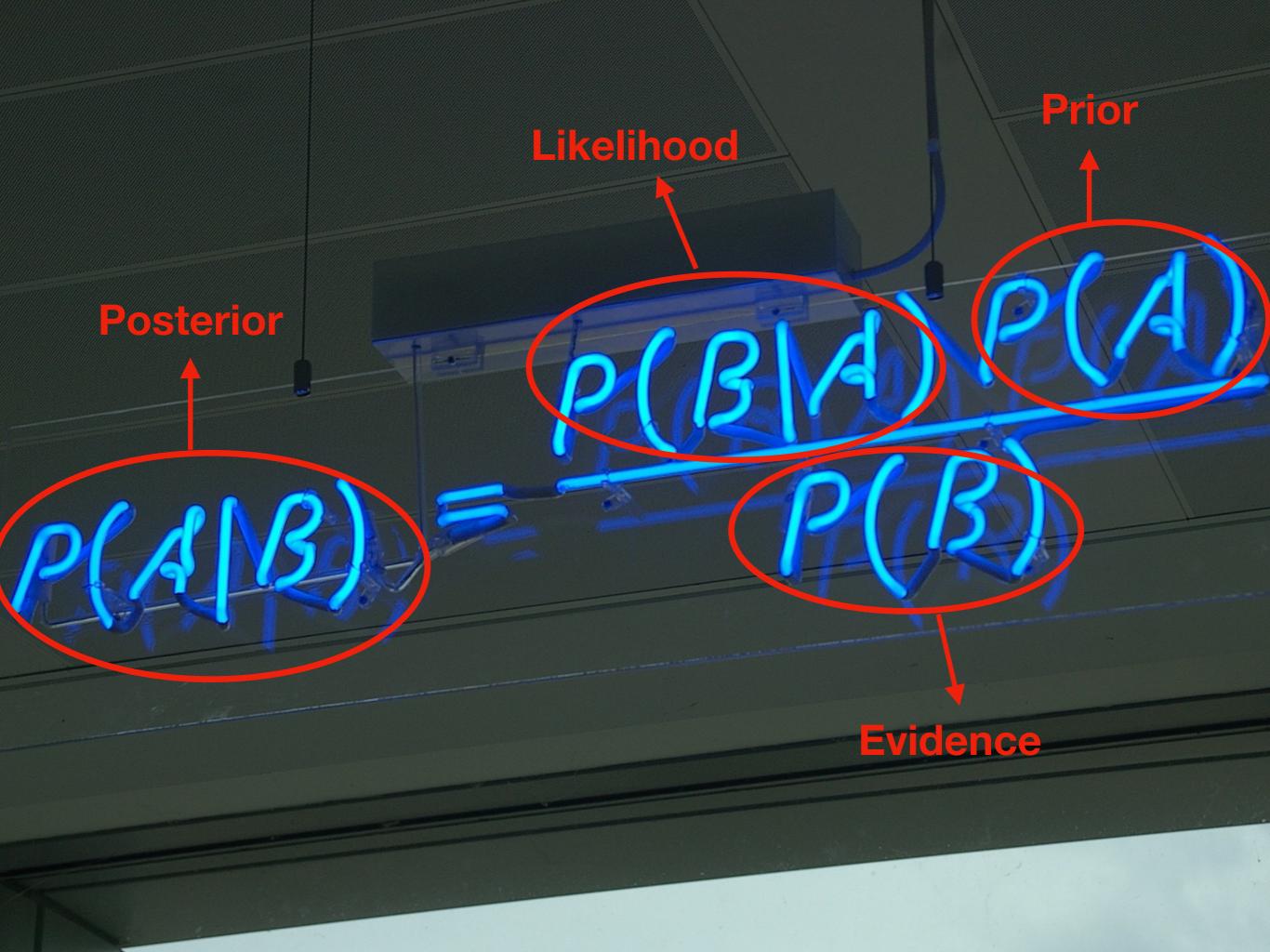


Cual es el problema que queremos resolver?

Ahora imaginen que solo tienen una medición

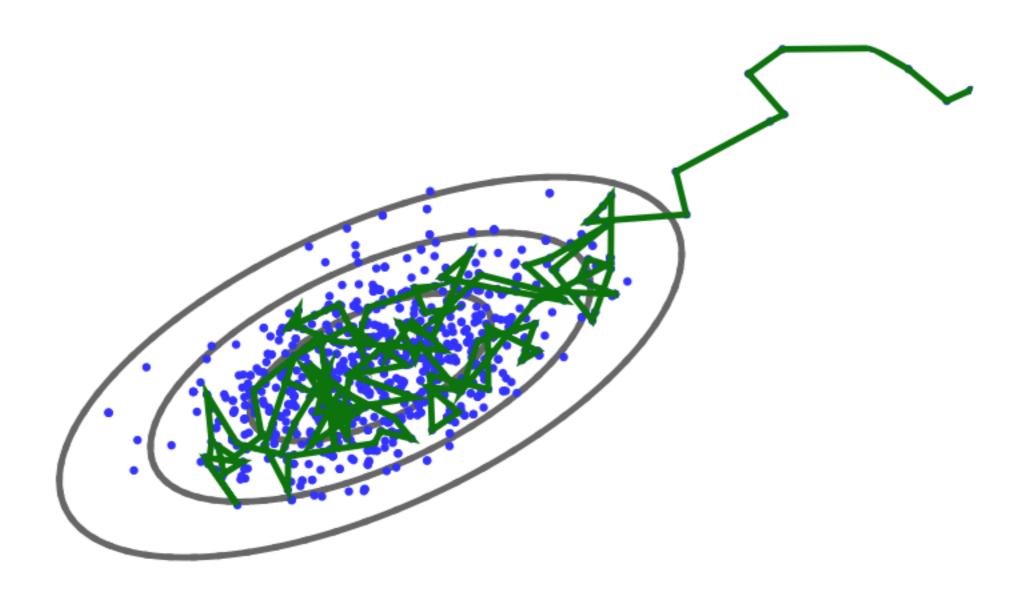






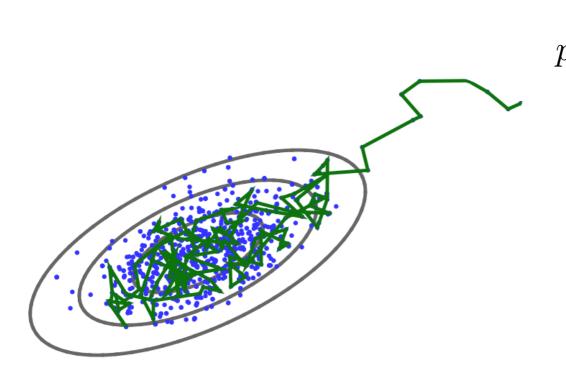
Markov Chain Monte Carlo

$$P(\theta|Datos, M) = \frac{P(Datos|\theta, M) \times P(\theta|M)}{P(Datos|M)}$$



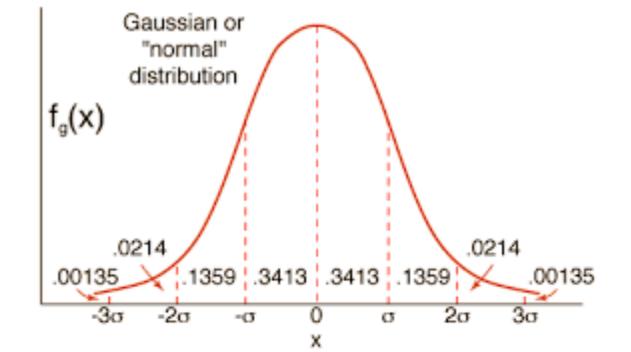
Markov Chain Monte Carlo

$$P(\theta|Datos, M) = \frac{P(Datos|\theta, M) \times P(\theta|M)}{P(Datos|M)}$$



$$p_i = \frac{1}{\sqrt{2\pi\sigma^2(\nu_i)}} \exp\left(-\frac{(T_{meas}(\nu_i) - T_{mod}(\nu_i))^2}{2\sigma^2(\nu_i)}\right)$$

$$L(T|\theta) = \prod_{i} p_i$$



Usemos el log10 del likelihood

Samplers

