Gamma inference

MoisÃĺs Bernabeu

Sample

```
## [1] "../outputs_up/jags_it10K_th3_n100_un100_s3820.RData"
```

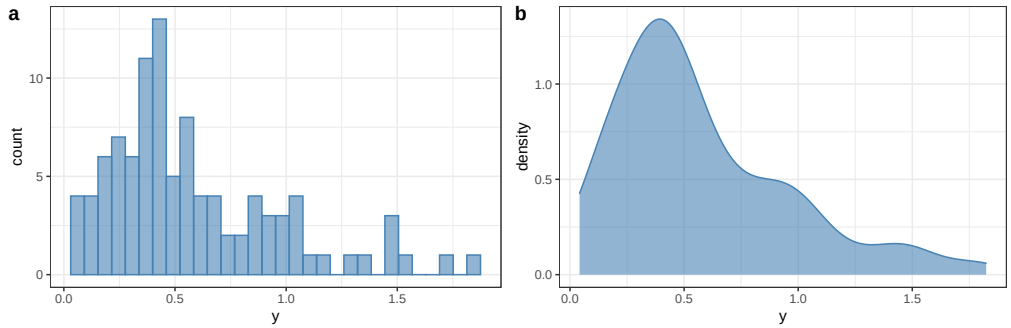

Figure 1: Histogram and density plot.

Gibbs parameters

alpha	beta	N sample	Chains	Thinning	Iterations	Adaptation	Final iter. no
2	4	100	3	3	10000	10	3333

`a`, `b`, `m`, `mo` and `v` are the α and β parameters, the mean, the mode and the variance respectively.

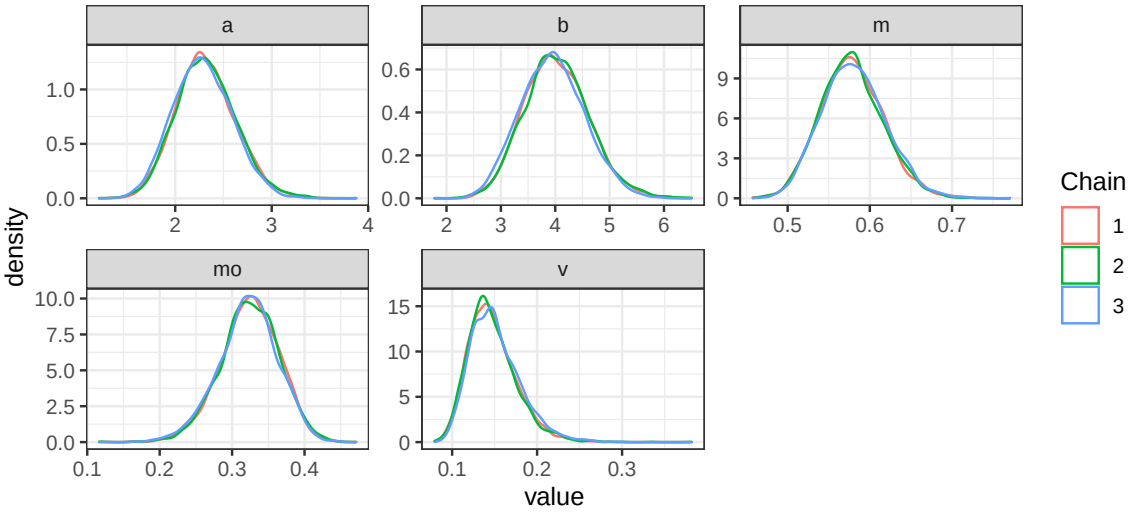

Figure 2: Posterior distributions densities for each parameter and in colors we show the chains.

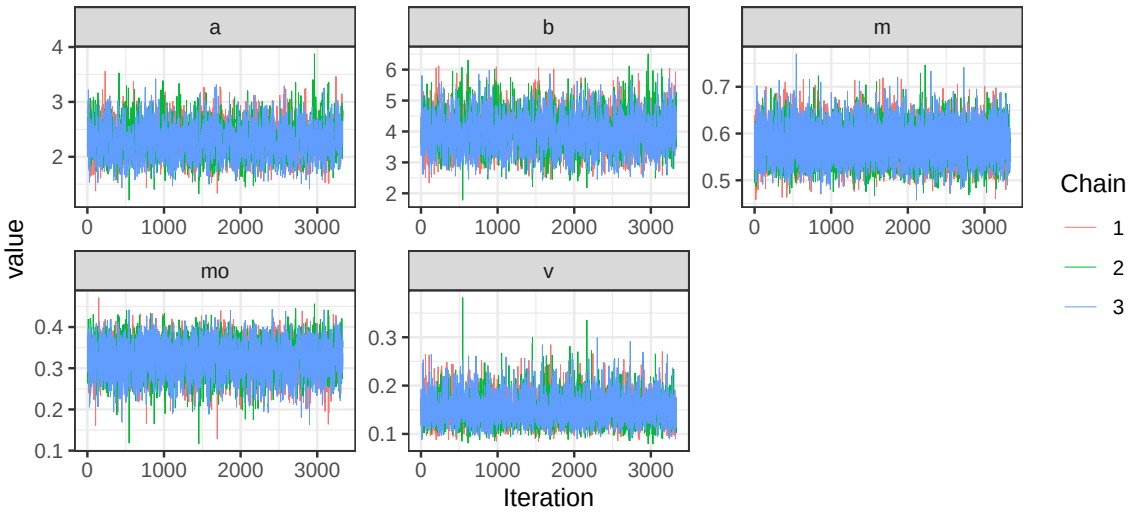

Figure 3: Traceplots for each parameter, in colors we show the chains.

Table 1: Summary statistics of the parameters posterior distributions.

	Mean	SD	R	Effective size
a	2.307	0.307	1.004	2170.039
b	4.002	0.593	1.004	2177.480
m	0.579	0.038	1.001	9537.336
mo	0.323	0.041	1.001	3625.997
v	0.149	0.029	1.004	2883.761

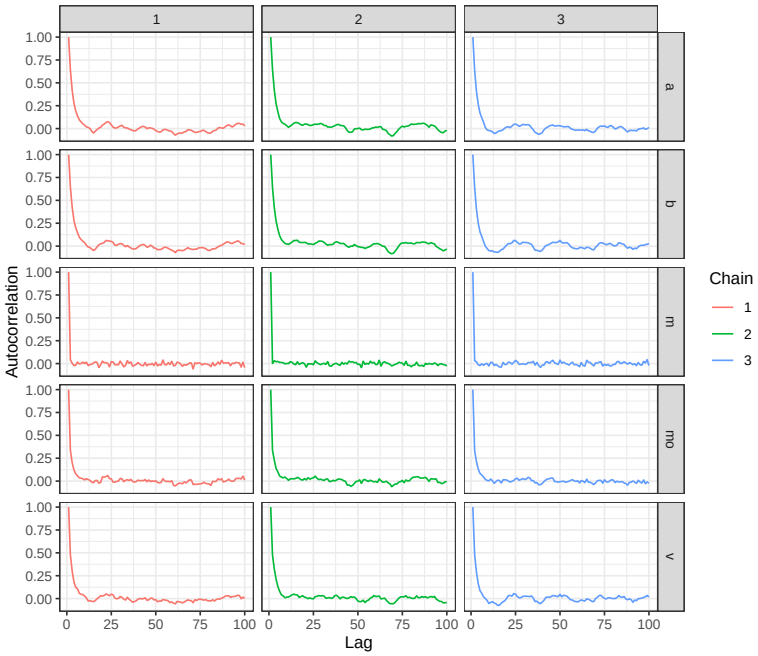

Figure 4: Autocorrelations vs lag.

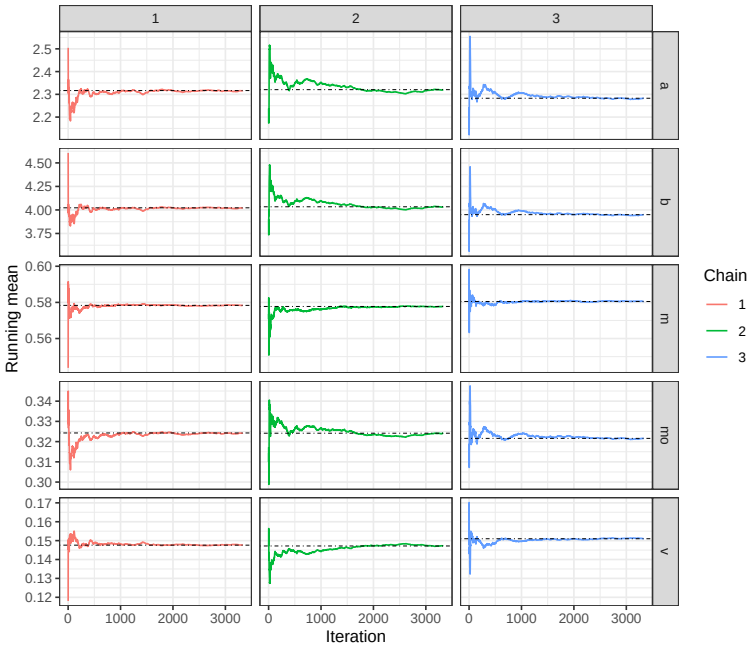

Figure 5: Estimates of the mean for each parameter and tranformations.

ML estimation

```
##       shape        rate
##   2.2494757   3.8836506
##  (0.2975600) (0.5752965)
```