MATH 598/782 - PROJECT 7

Please submit your project by 6.00 pm (EST) on Tuesday 22th December by uploading a single pdf to myCourses. Further extensions may be allowed on request.

For the two sample data

www.math.mcgill.ca/dstephens/598-Bayes-2020/Projects/Project7.csv

compute the Bayesian posterior probability that the two samples come from a single Poisson population with parameter λ rather than two Poisson populations with parameters λ_1 and λ_2 , where all the model parameters are unknown, and believed independently to follow Gamma(10, 2) priors. Assume also that, *a priori*, the two possibilities (one population or two populations) are deemed equally probable.