MARCO JE MARE In Mini-ML-joint-HMC_warline code joint nonlevear optiviration -weighted, mlx States from N=10 initial points
and for each does 1000 rondomirators
of oxperviou tal PCS Does platinatrix with results Save paraur-frequent-weighted join went -contains param frequent weighted

(the cutively watrix with parameters)
sampled save param frequentionist optimination - weight-joint, mat param fraq-vedion weight pararu - freq - std weight Jura taman

Joint optimisation (low + light p. 2) Code' Freq-optimiration joint single point, and start from param frequentionist optimists optimists optimists and weight joint, went containts, porau fraquedian weight param -freg-Std-weight for gradient descent Do 10000 PC-1 to PC-3 perturbations Do corresponding fitting and platmatrix
save param-frequent-joint-sampled moments, much contains: parametout sampled median param-journt-sampled std In the end checlus agreement of the predictions with the optimized parameters by comparing just PCs

3 comparing-sampled dist-beta, wha Start from param freguest-jount
-sampled fit beta distribution parameters swe proor-beta-parameters, most also displays fits of beta distribution to frequentionist sampled parameters (HMC-optimiration lowpT- Max little Takes initial point from

parameters, mat

proof beta parameters, mat

for comparison with frequentimist; Sample mitial points from 8 chains from Beta distribution for mean contered at MAPS and with X=15 produced concatoneted Samples - Kaxlike wat In the end compares the sampled distribute with Beta distributions fitted to frequirities

recarstruct_joint_data. ulx (9) starts from the sampling or load concatenated Samples Machille, mat First reproduces experimental and predicte PCs together with errors. errors include variations in the sampled parameters, First do high PT data i) chedu actual and reconstructed simulation predictions (i) comparison between actual experiments, model predictions (corresponding to median of sampled pora meters) between experimental data, predictions corresponding to range of sampled parameters and predictions corresponding to the onitial (prior) range of parameters, Then the same for low Pt date