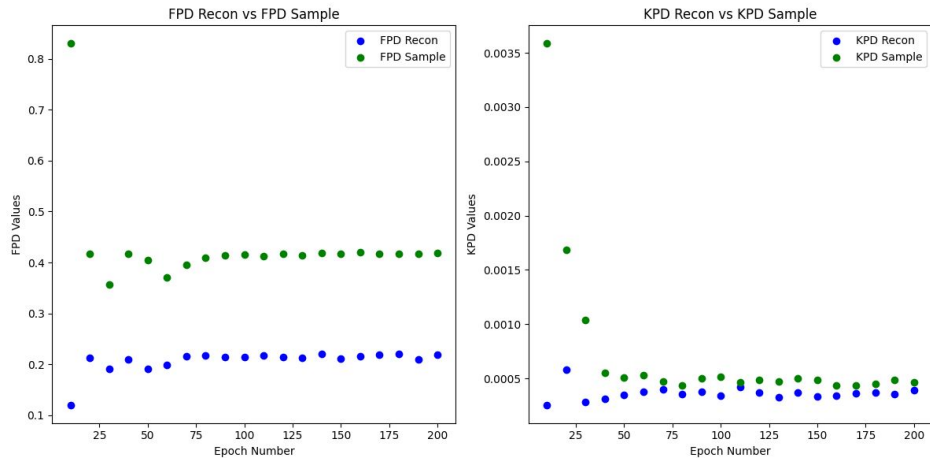


Zephyr, Old KL, freeze from epoch 70

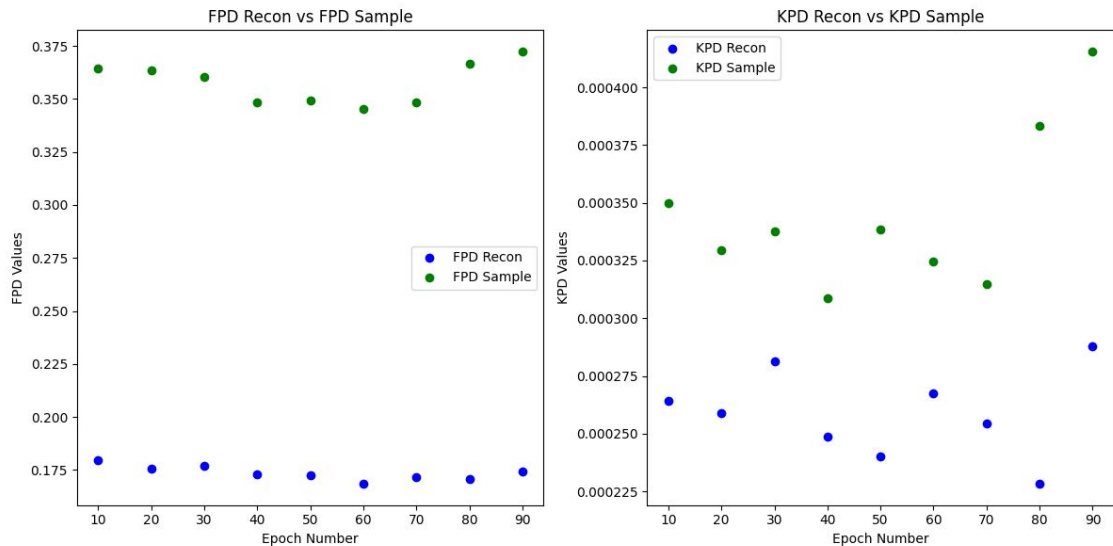


Previous models

	FPD ($\times 10^3$)	KPD ($\times 10^3$)	Fixed bug	Exact RBM Grad
Pegasus	443.0 ± 2.4	0.84 ± 0.1		
Pegasus	390.4 ± 1.9	0.46 ± 0.05	✓	
Zephyr	380.7 ± 1.1	0.61 ± 0.06		
Zephyr	379.7 ± 1.7	0.57 ± 0.05	✓	
Zephyr	362.7 ± 1.7	0.57 ± 0.08	✓	✓

Zephyr, no freeze, Old KL, Ir = 1e-5

FPD	KPD
348+- 2.08	0.31+-0.04



Potential to improve

- Old KL training method:
 - Can not train latent space when freezing the VAE.
 - When de-freezing VAE, it just stretch the VAE to fit the Latent space
 - Result in degrading performance.
- New KL training method:
 - Latent space is trained
 - Will see how it goes