

vizualize__topoloss

September 9, 2024

0.1 Experiments on the loss function

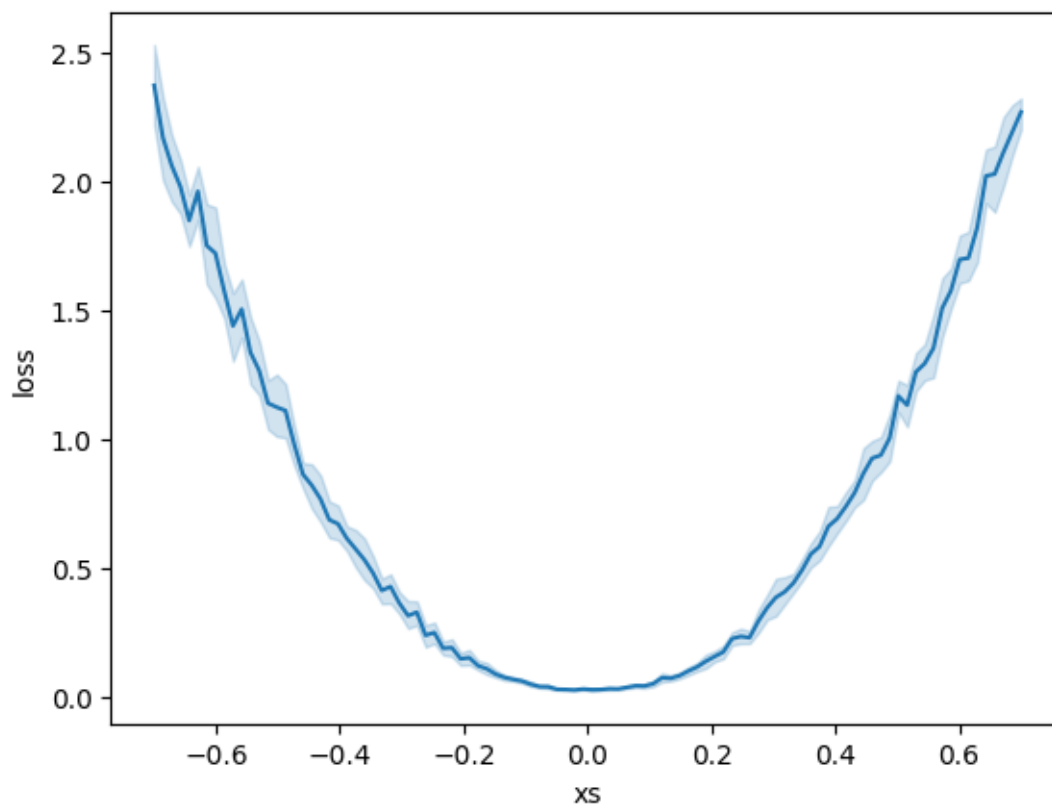
Plots to make - Effect of number of directions on loss and gradient - Effect of scale on loss function and gradient

1 Vizualization of the different loss functions

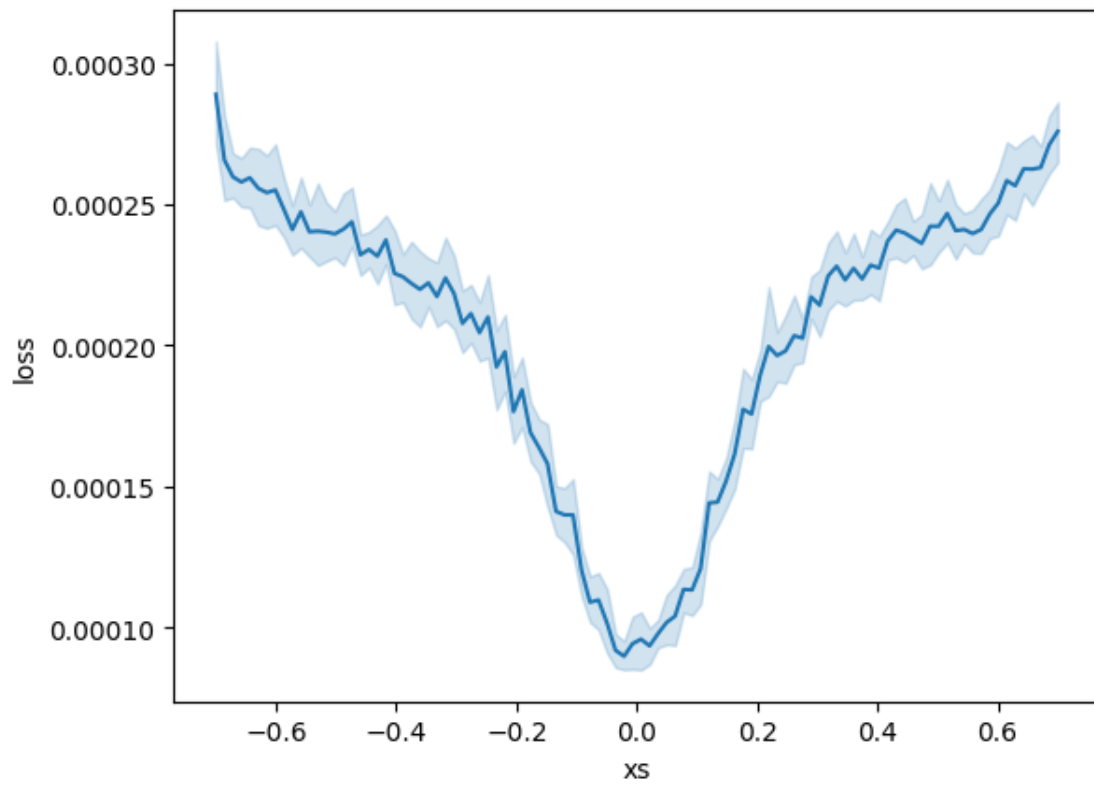
We need to rerun this with confidence intervals, there seems to be quite some variance.

	xs	loss	type
0	-0.700000	1276.467773	kld
1	-0.700000	2.234987	cd
2	-0.700000	0.000275	mse
3	-0.685859	1275.335938	kld
4	-0.685859	2.189975	cd

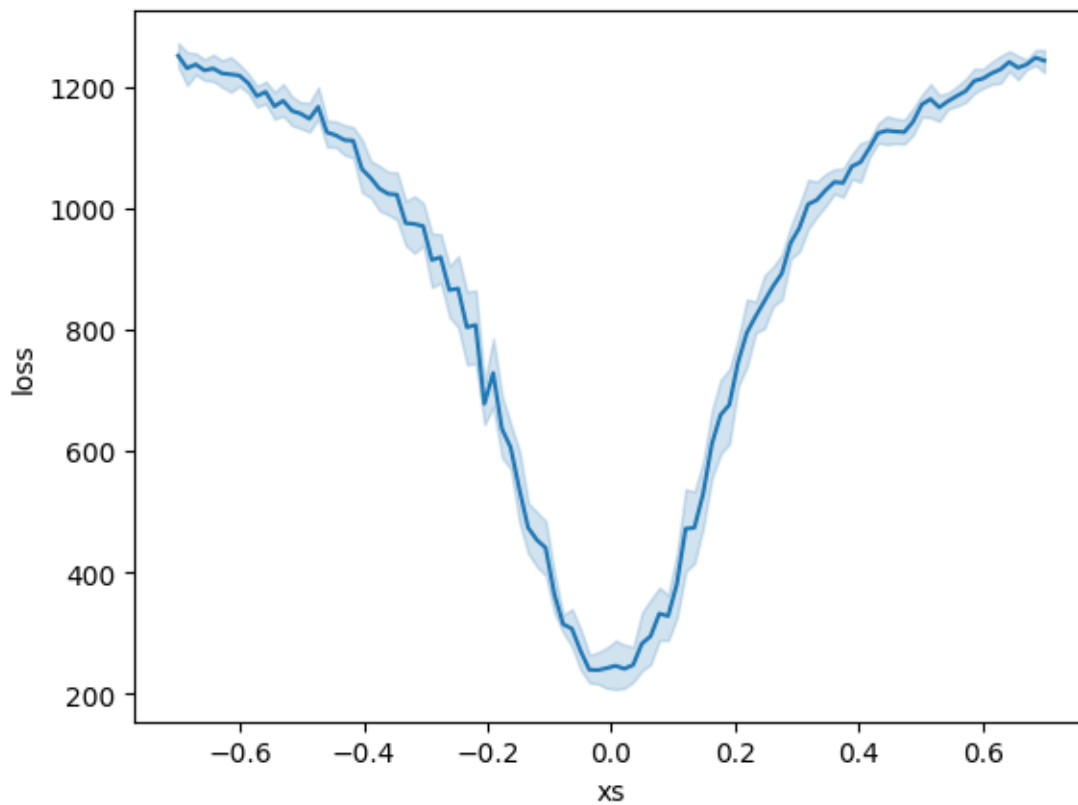
<Axes: xlabel='xs', ylabel='loss'>



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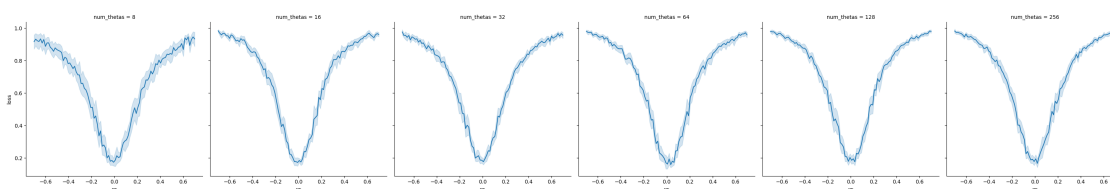


<Axes: xlabel='xs', ylabel='loss'>



2 Visualization of the number of directions used in the ECT

<seaborn.axisgrid.FacetGrid at 0x7fbe0c1cb700>



3 Resolution

	loss	xs	resolution
0	0.962151	-0.700000	8
1	0.995081	-0.685859	8
2	0.959757	-0.671717	8
3	0.924174	-0.657576	8

4 0.930819 -0.643434 8

<seaborn.axisgrid.FacetGrid at 0x7fbdfb8f9090>

