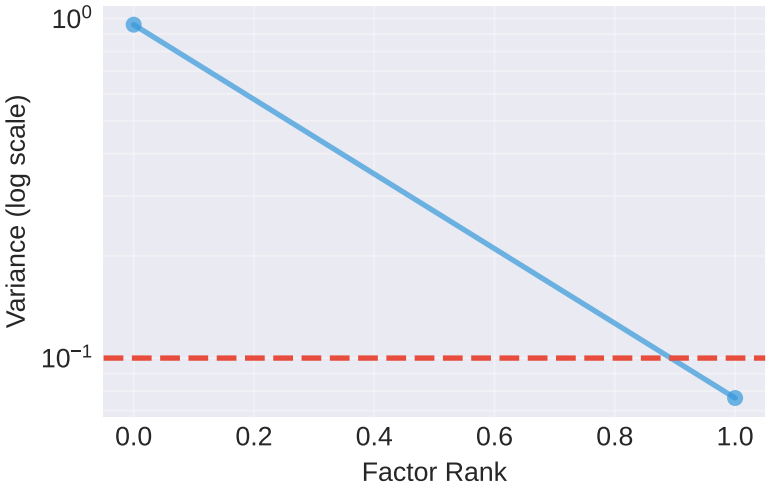


Factor Variance Analysis: ARD Shrinkage Assessment (K=2)

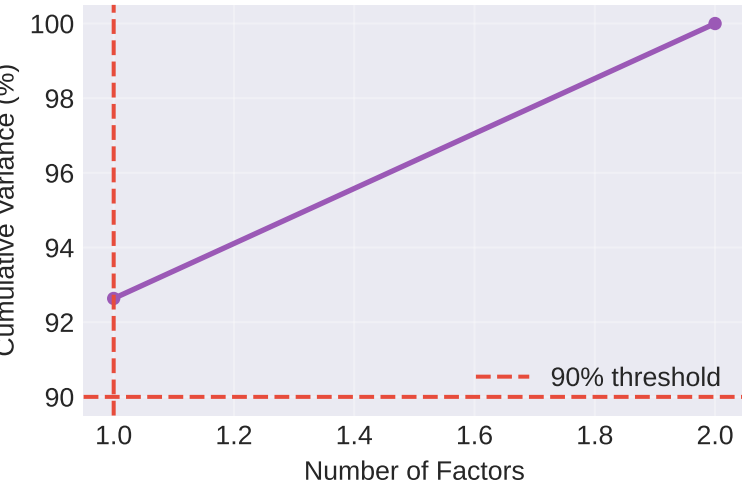
Factor Variance Profile (K=2): 1 Active Factors
(Error bars: 95% credible intervals)



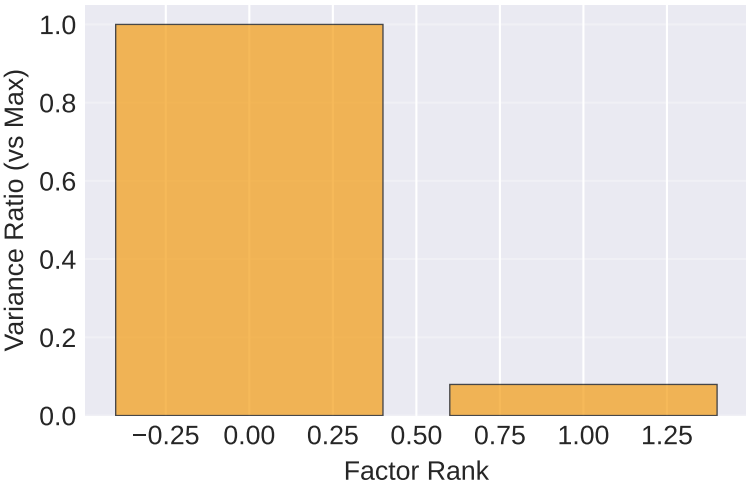
Log-Scale Variance
(Sharp drop = good ARD)



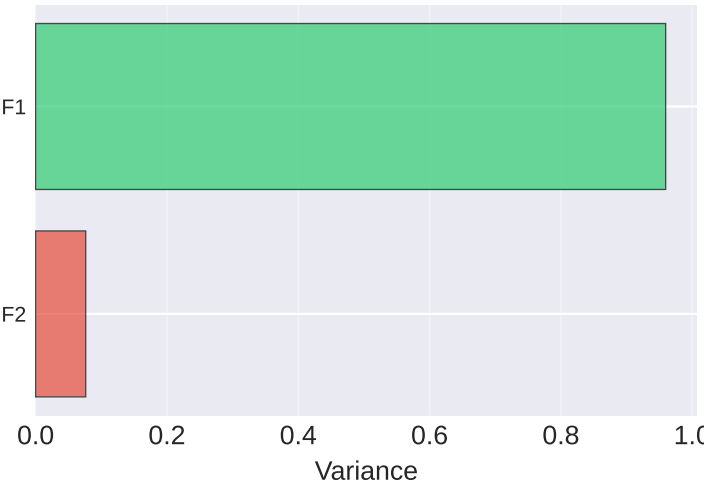
Cumulative Variance
(90% @ 1 factors)



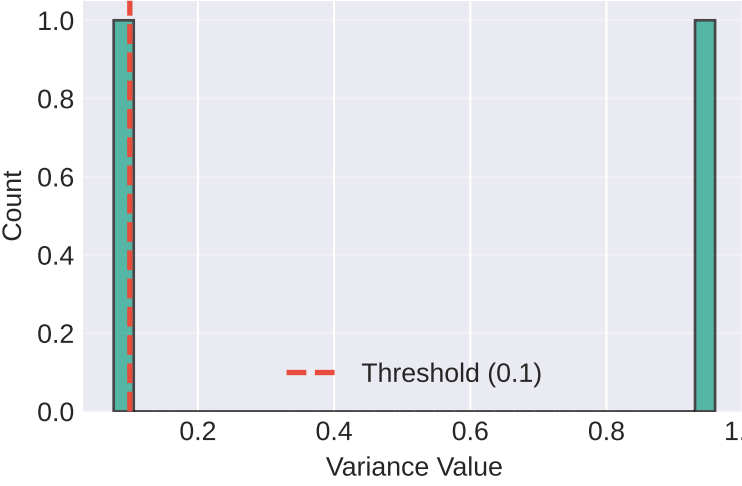
Normalized Variance Profile



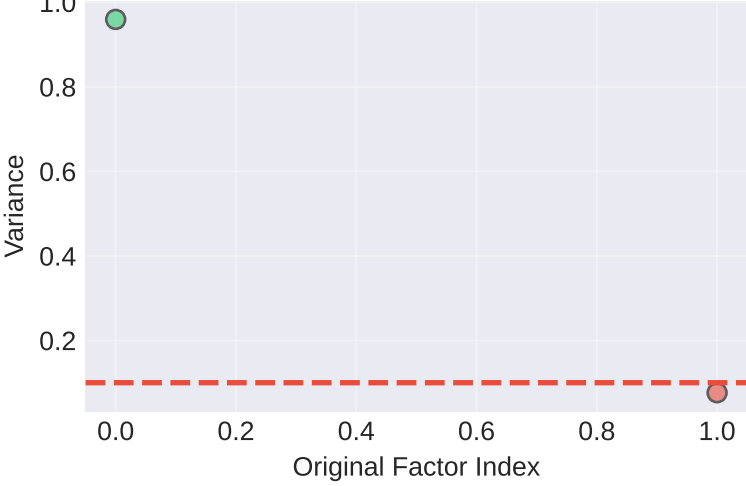
Top 2 Factors



Distribution of Factor Variances



Variance by Original Factor Order



VARIANCE PROFILE SUMMARY

Total Factors (K):2

Active Factors:1

Effective Dim (90%):1

Max Variance:0.9595

Mean Variance:0.5179

Median Variance:0.5179

Top 2 Variances:

#1: 0.9595

#2: 0.0763

ARD Shrinkage:N/A (K < 10)

Shrinkage Ratio:nan

INTERPRETATION:

Poor shrinkage suggests:

• Convergence issues

• Overfitting

• Need longer sampling