

Extreme Value Theory GEV Distribution

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November 24, 2025

Abstract

Statistical analysis of extremes.

1 Introduction

This report presents computational analysis of extreme value.

2 Mathematical Framework



Figure 1: Primary analysis results.

3 Secondary Analysis

extreme_value_plot2.pdf

Figure 2: Secondary analysis comparison.

4 Parameter Study



Figure 3: Parameter sensitivity analysis.

5 2D Visualization



Figure 4: Two-dimensional field visualization.

6 Distribution Analysis

extreme_value_plot5.pdf

Figure 5: Statistical distribution analysis.

7 Time Series

`extreme_value_plot6.pdf`

Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to extreme value.