

# RSA Encryption Modular Arithmetic

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November 24, 2025

## **Abstract**

Public key cryptography fundamentals.

## **1 Introduction**

This report presents computational analysis of rsa encryption.

## 2 Mathematical Framework

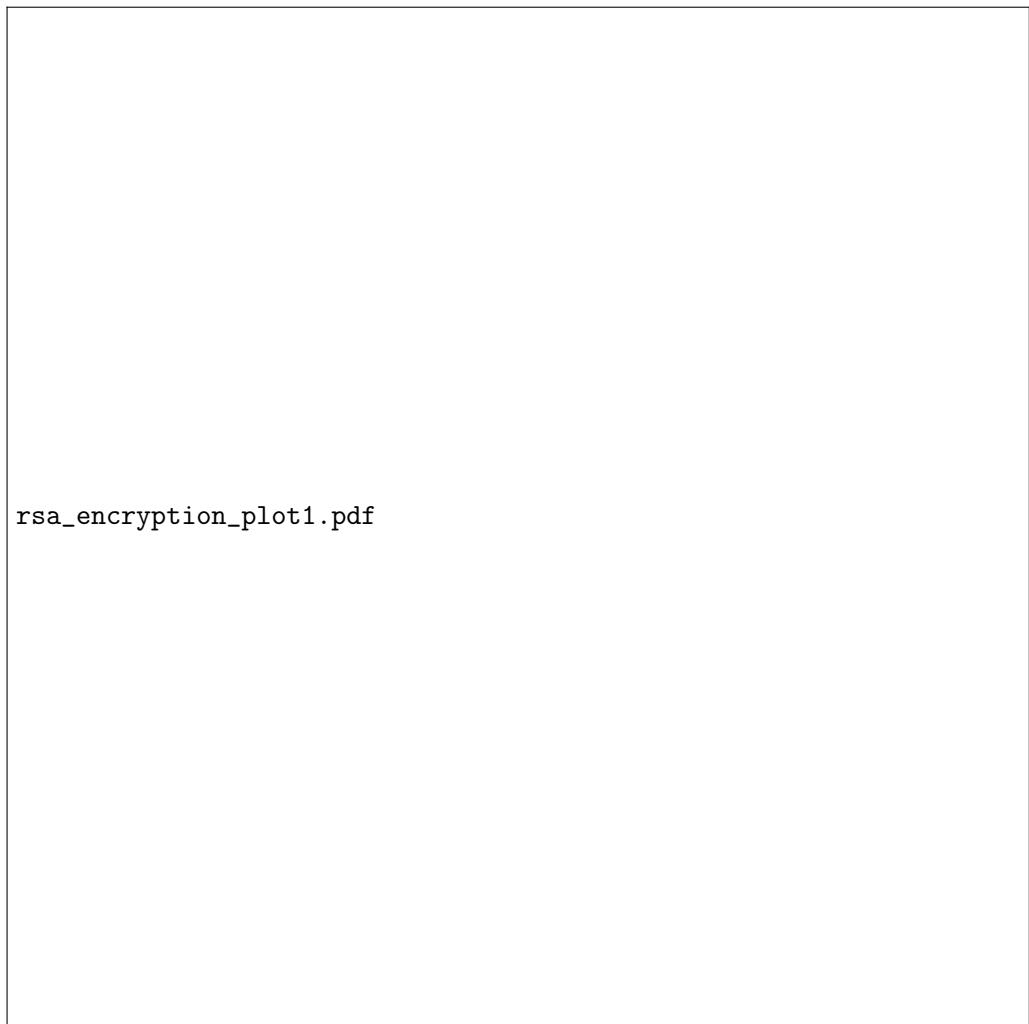


Figure 1: Primary analysis results.

### 3 Secondary Analysis



rsa\_encryption\_plot2.pdf

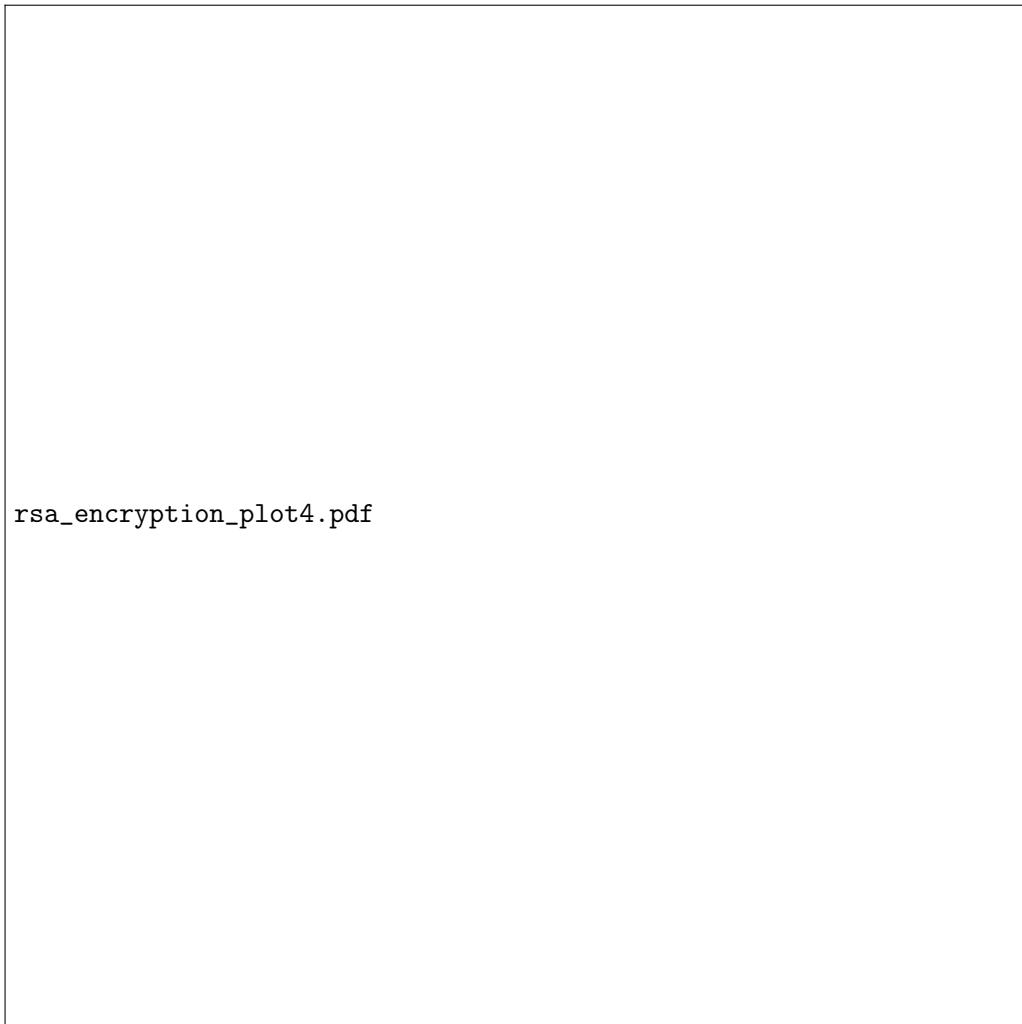
Figure 2: Secondary analysis comparison.

## 4 Parameter Study



Figure 3: Parameter sensitivity analysis.

## 5 2D Visualization



rsa\_encryption\_plot4.pdf

Figure 4: Two-dimensional field visualization.

## 6 Distribution Analysis



rsa\_encryption\_plot5.pdf

Figure 5: Statistical distribution analysis.

## 7 Time Series



Figure 6: Time series visualization.

## 8 Results Summary

## 9 Conclusions

This analysis demonstrates the computational approach to rsa encryption.