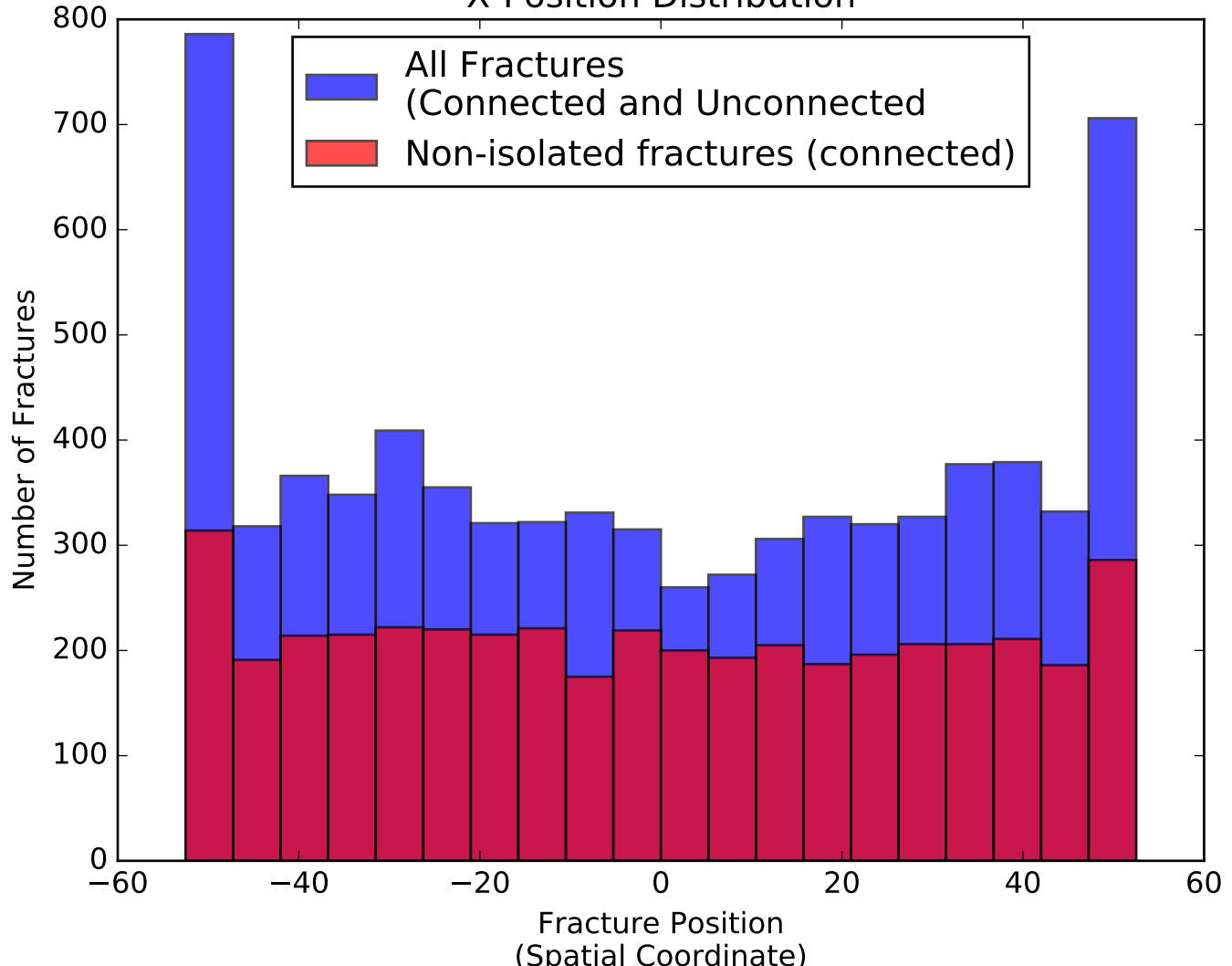
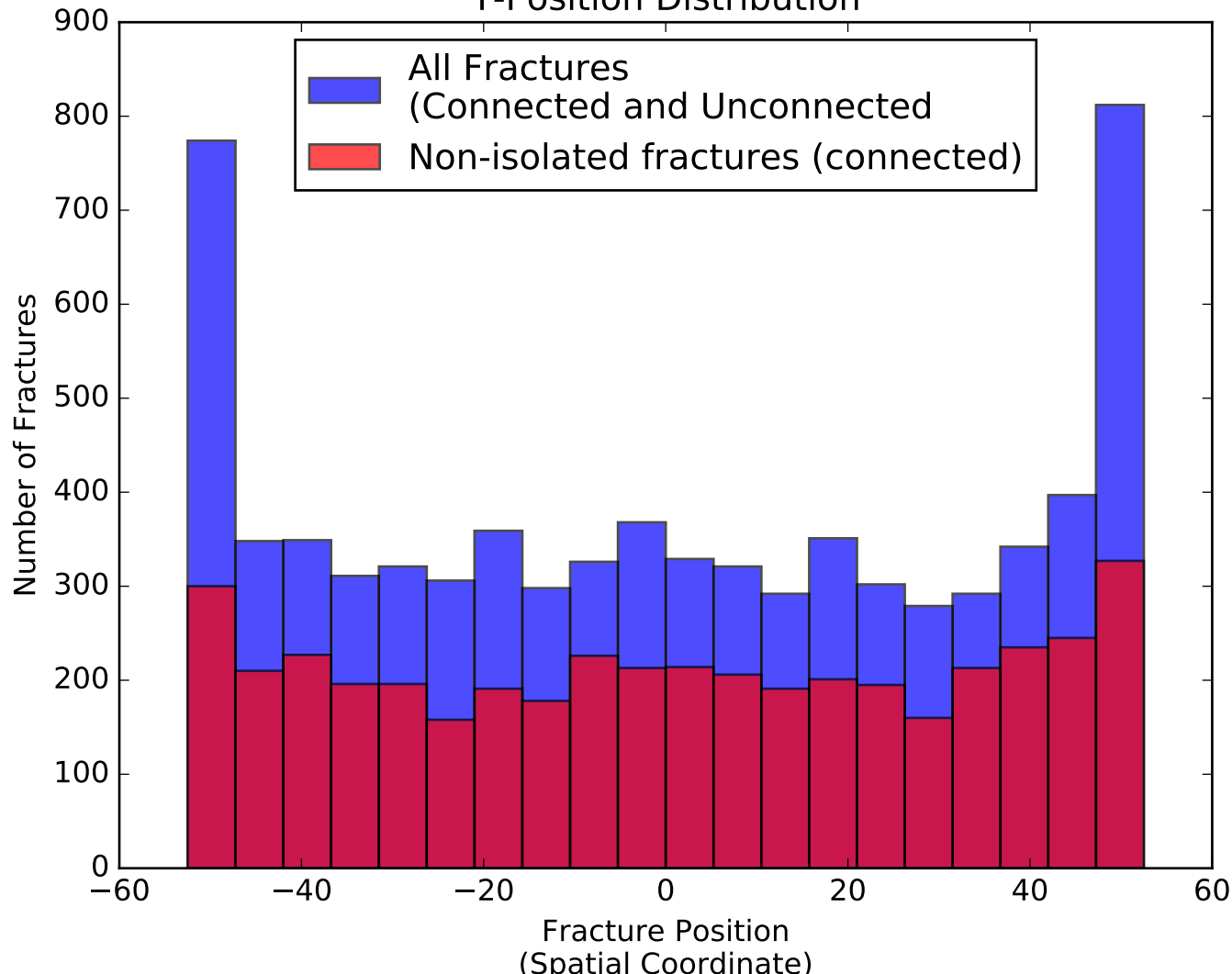


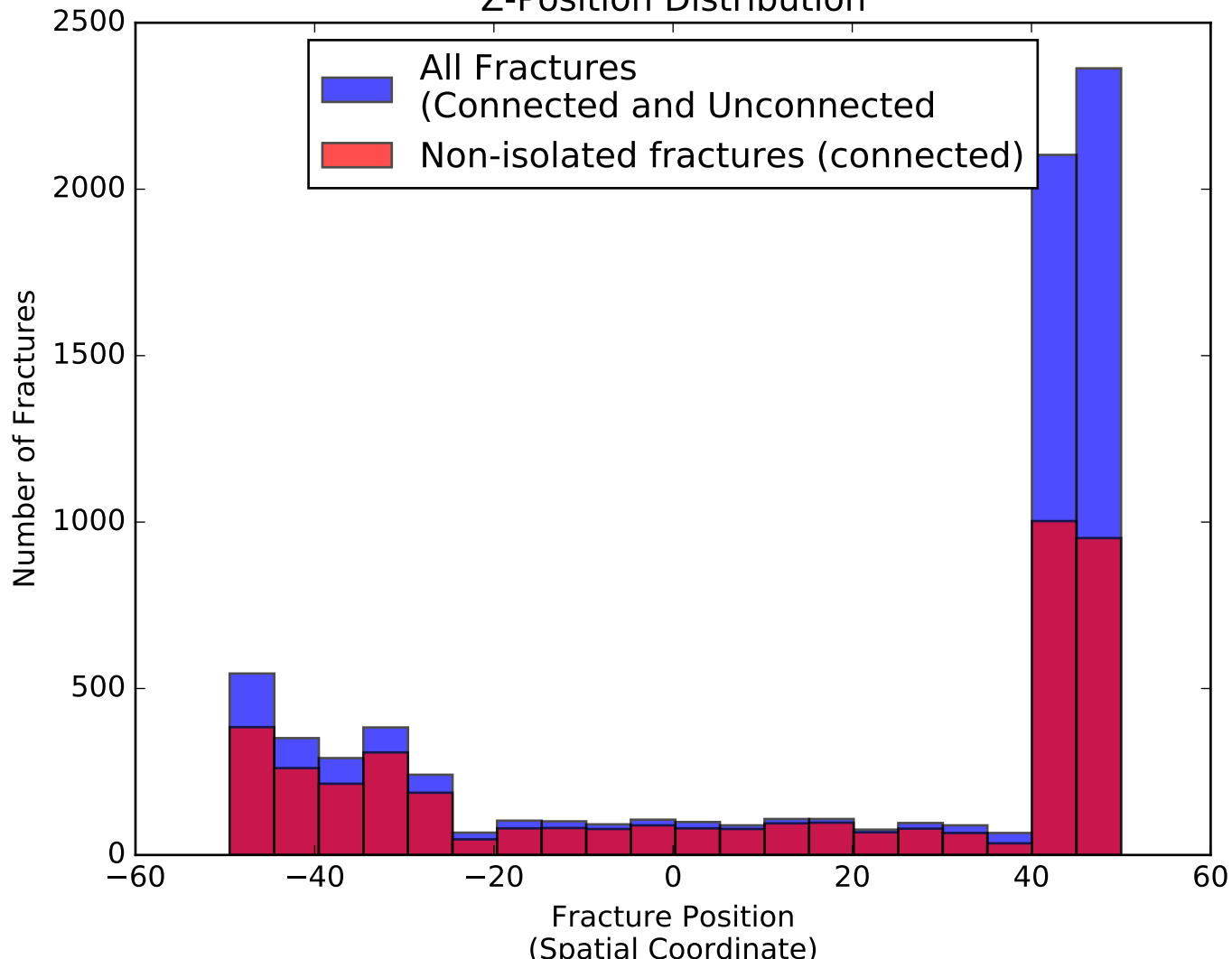
X-Position Distribution



Y-Position Distribution



Z-Position Distribution



Ellipse Family 1:

Global Family 1

Number of Vertices: 8

Aspect Ratio: 1.1

Beta Distribution (Rotation Around Normal Vector): $[0, 2\pi]$

Theta: 0 Degrees

Phi: 0 Degrees

Kappa: 8

Layer: Entire domain

Distribution: Truncated Power-Law

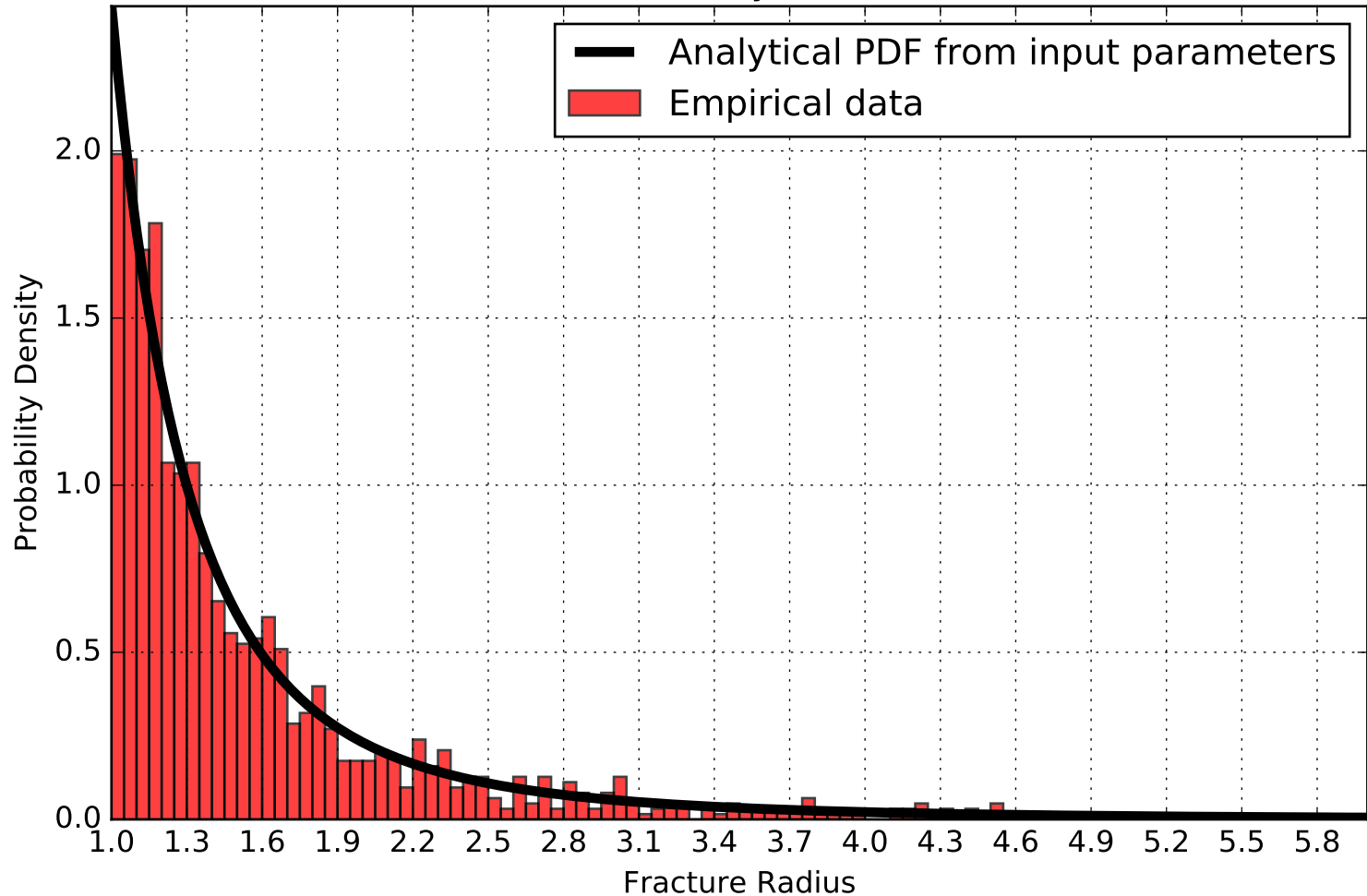
Alpha: 2.4

Minimum Radius: 1m

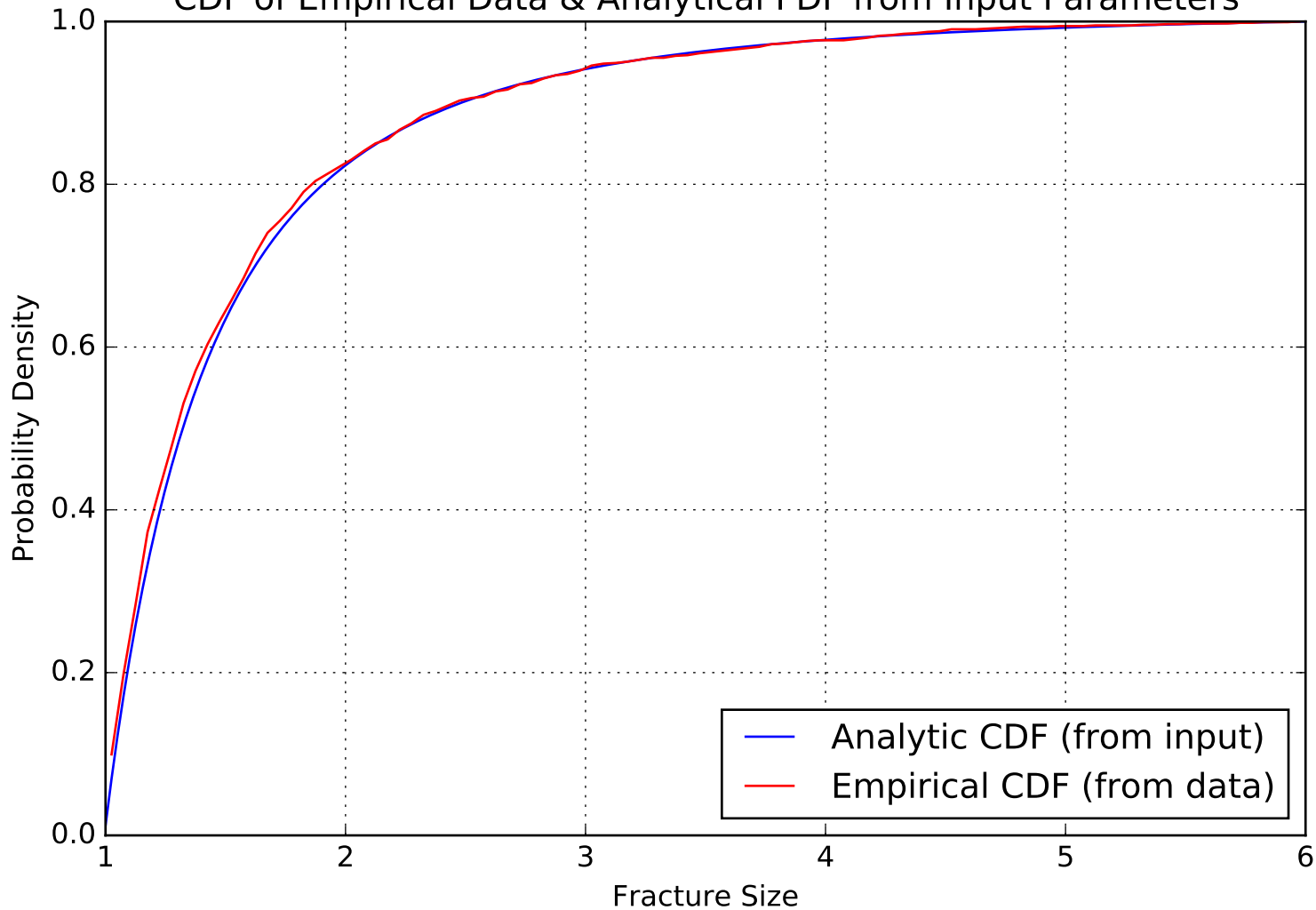
Maximum Radius: 6m

Family Insertion Probability: 0.25

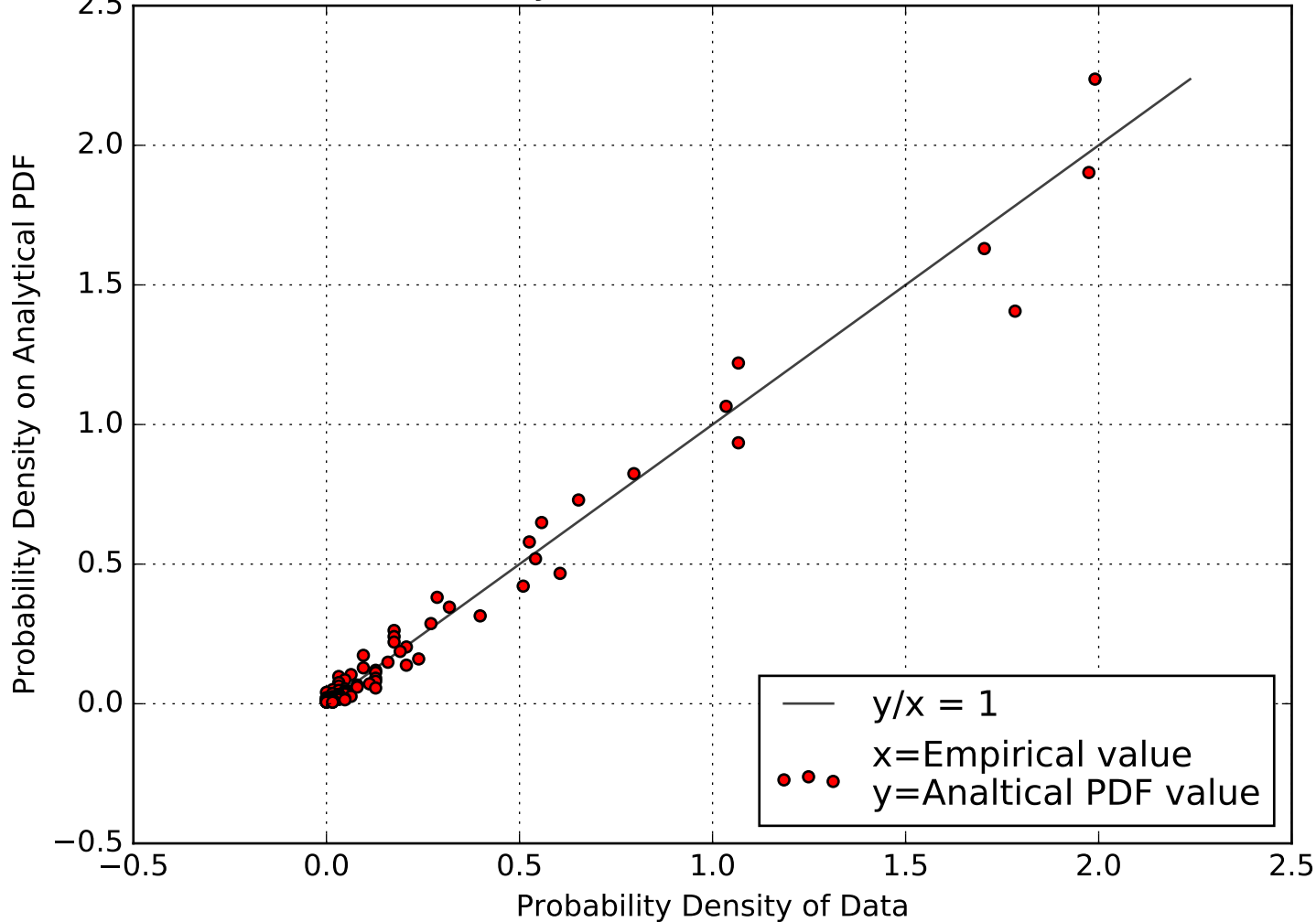
Histogram of Obtained Radii Sizes & Truncated Power Law Distribution PDF
Family #1



CDF of Empirical Data & Analytical PDF from Input Parameters



Q-Q Plot of Data vs. Analytical Distribution At Same Point (Bin Center)



Ellipse Family 2:

Global Family 2

Number of Vertices: 12

Aspect Ratio: 1.2

Beta Distribution (Rotation Around Normal Vector): $[0, 2\pi]$

Theta: 45 Degrees

Phi: 0 Degrees

Kappa: 10

Layer: Entire domain

Distribution: Exponential

Mean: 2

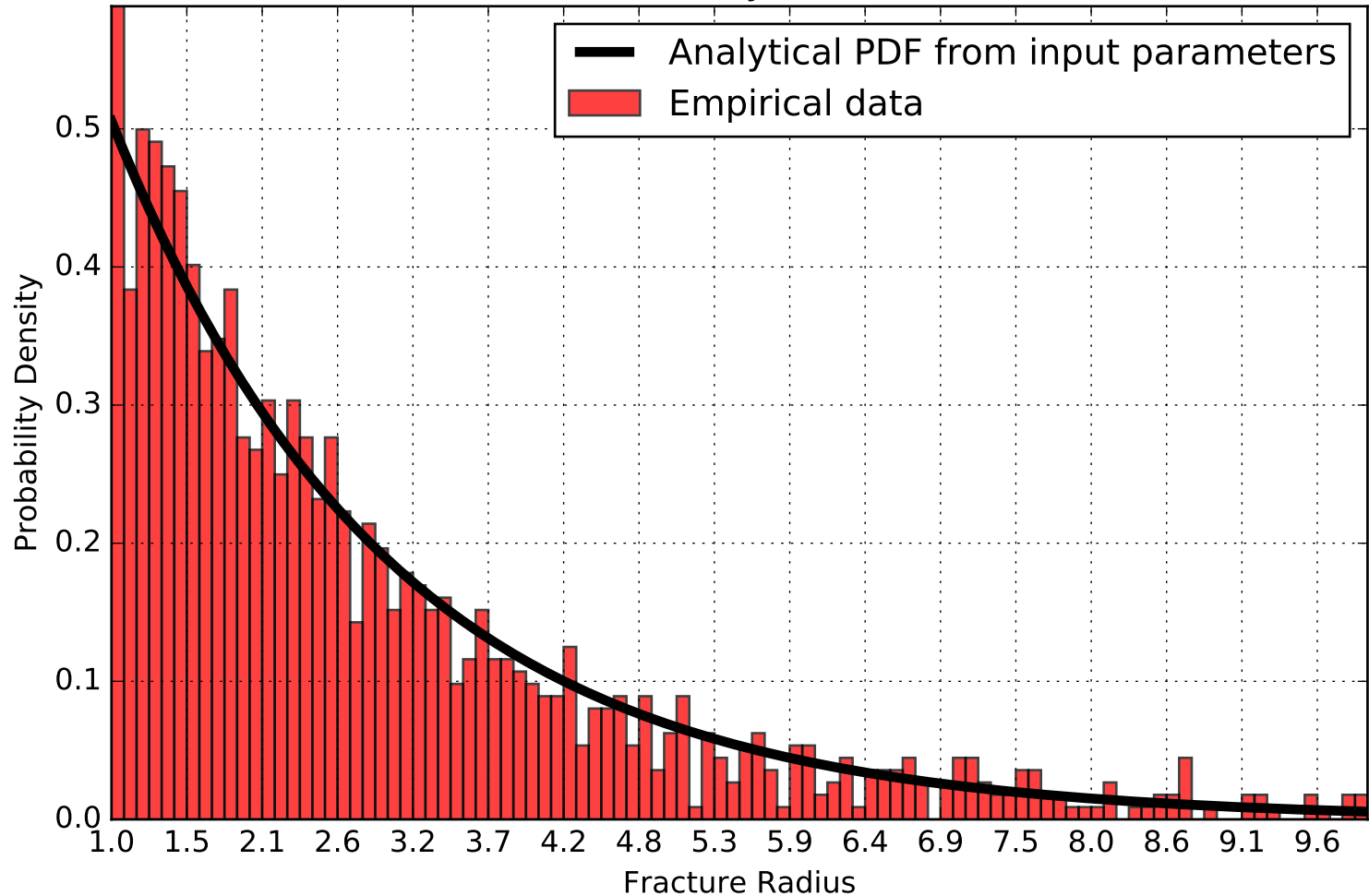
Lambda: 0.5

Minimum Radius: 1m

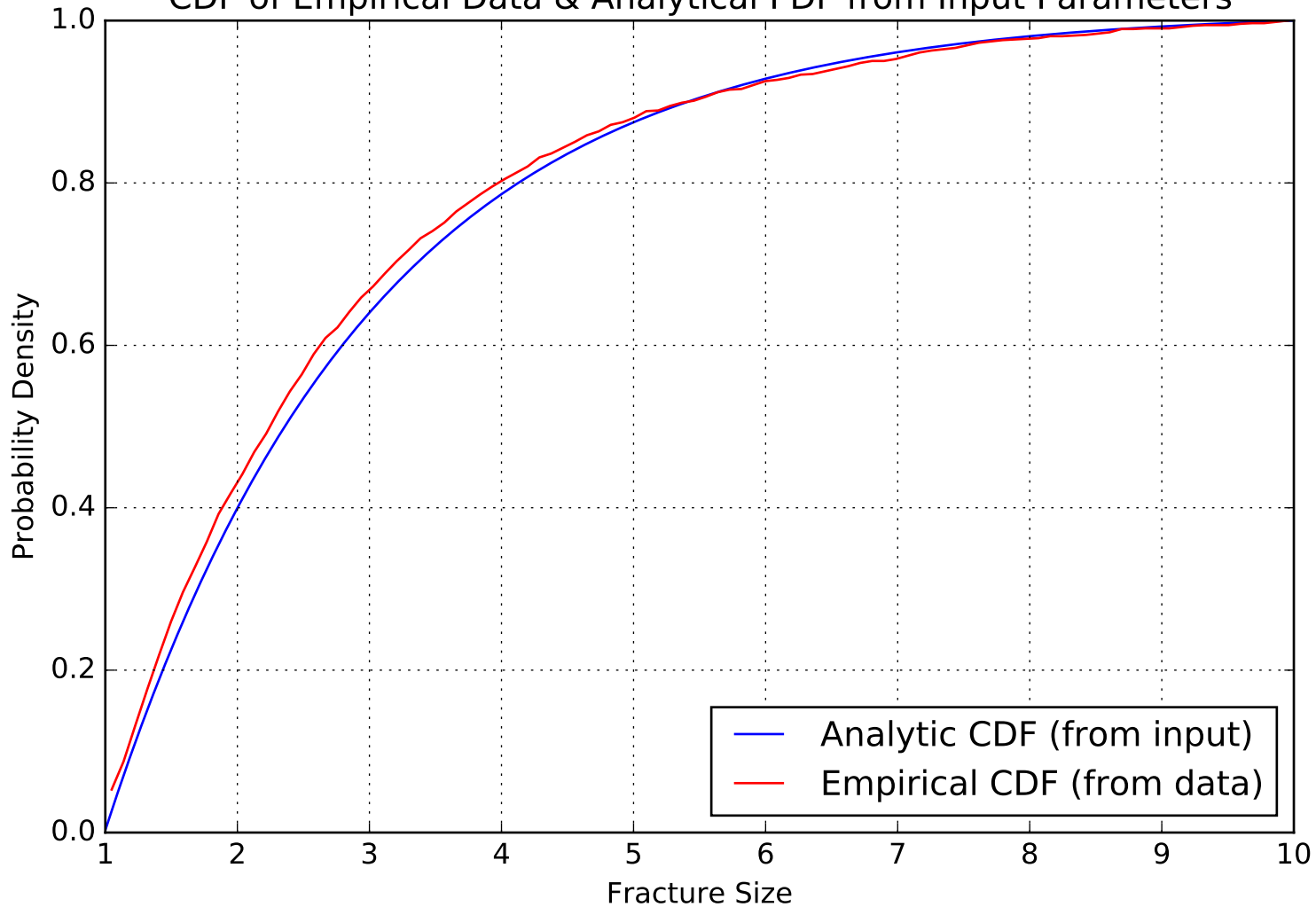
Maximum Radius: 10m

Family Insertion Probability: 0.25

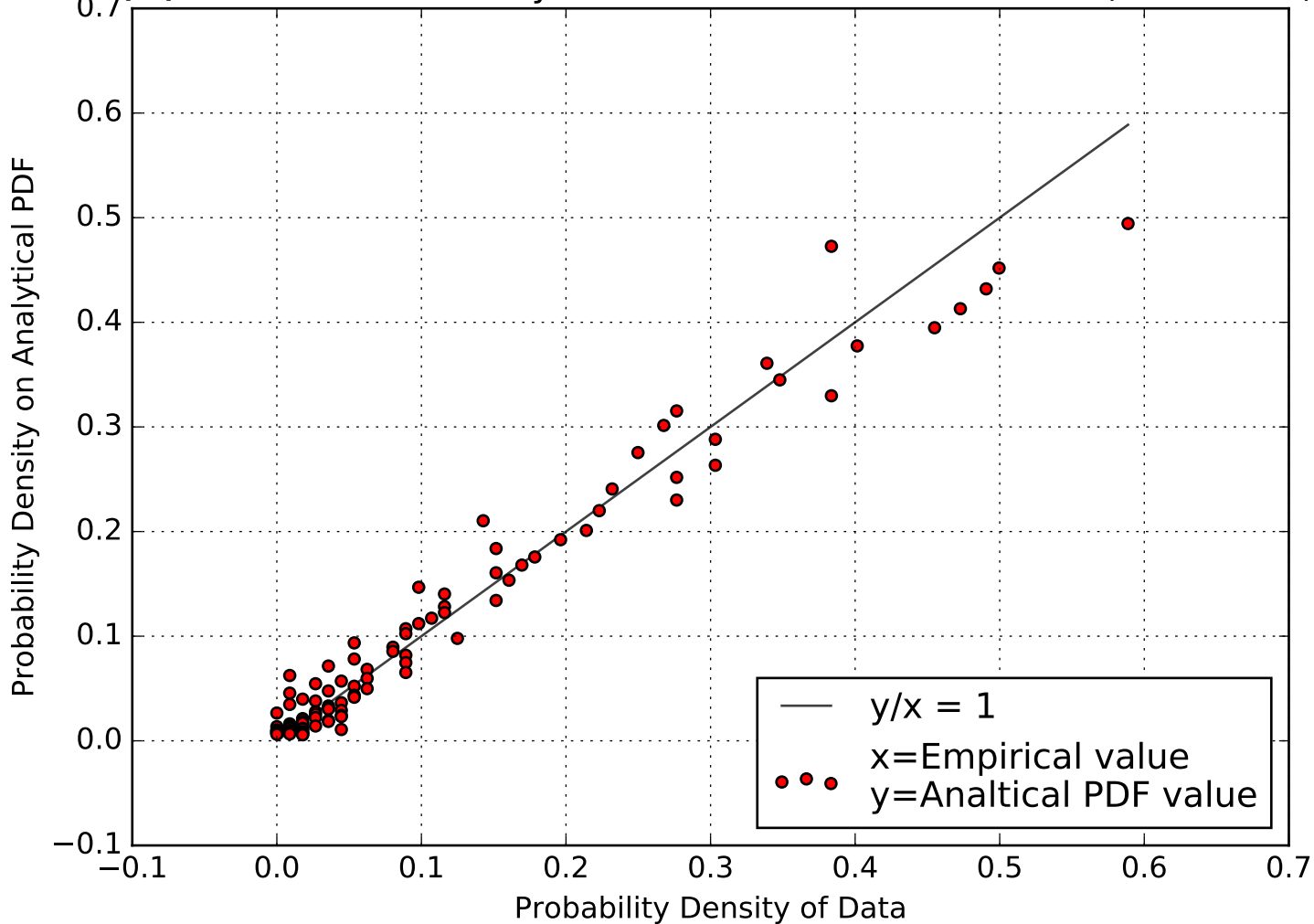
Histogram of Obtained Radii Sizes & Exponential Distribution PDF.
Family #2



CDF of Empirical Data & Analytical PDF from Input Parameters

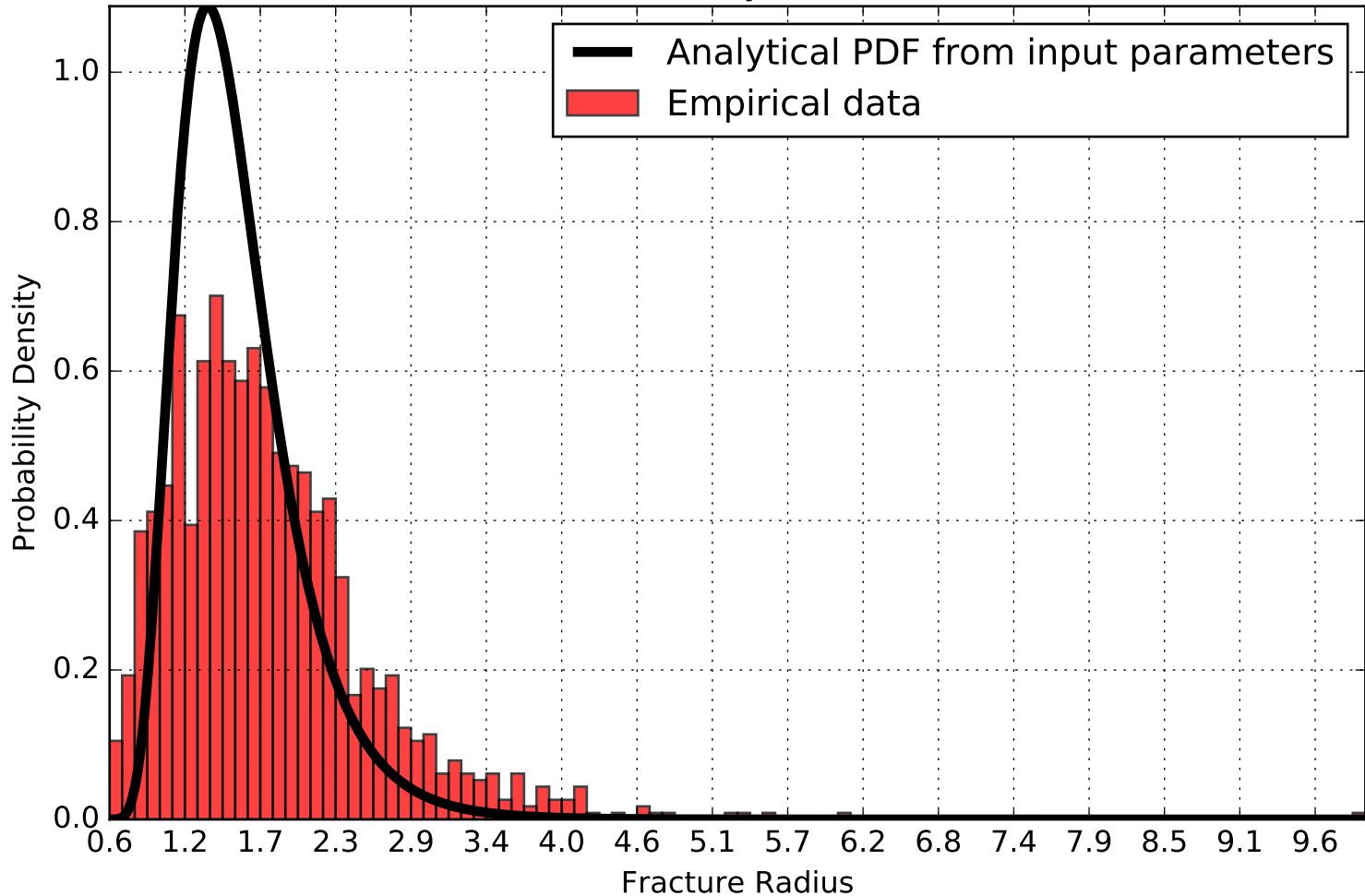


Q-Q Plot of Data vs. Analytical Distribution At Same Point (Bin Center)

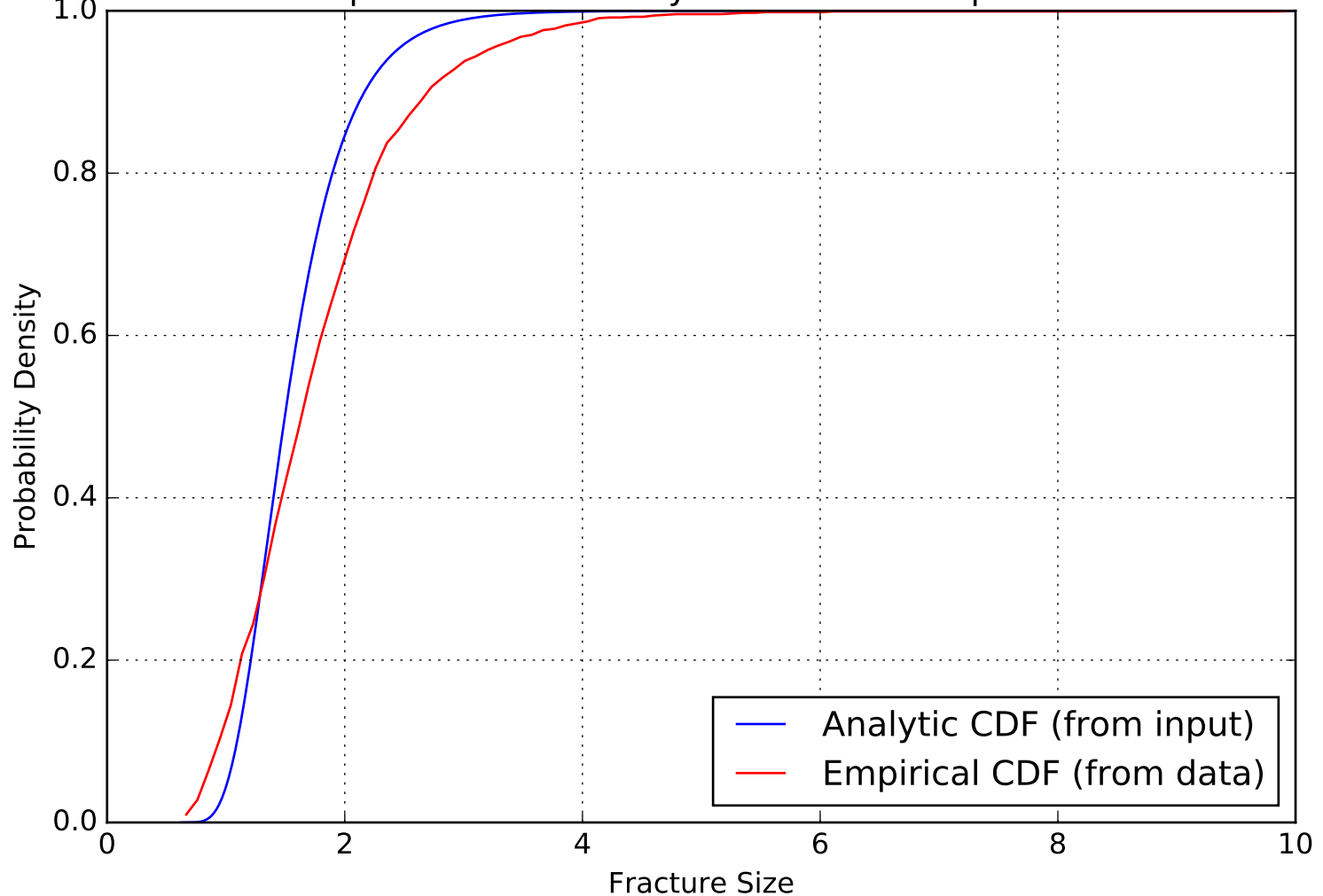


Rectangular Family 1:
Global Family 3
Number of Vertices: 4
Aspect Ratio: 1.1
Beta (Rotation Around Normal Vector): 0 Degrees
Theta: 90 Degrees
Phi: 0 Degrees
Kappa: 8
Layer: Entire domain
Distribution: Lognormal
Mean: 0.5
Standard Deviation: 0.4
Minimum Radius: 0.5m
Maximum Radius: 10m
Family Insertion Probability: 0.25

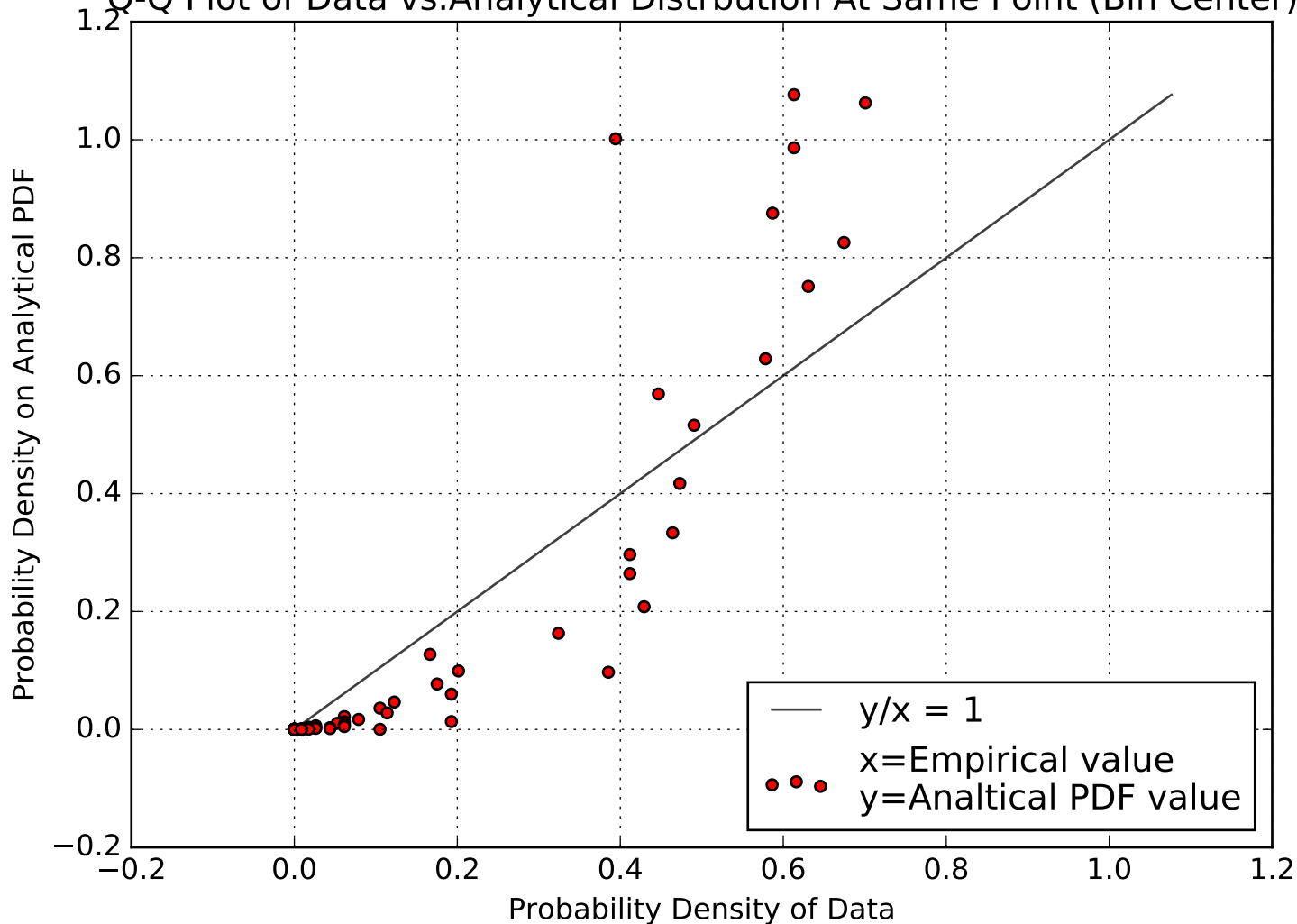
Histogram of Obtained Radii Sizes & Lognormal Distribution PDF.
Family #3



CDF of Empirical Data & Analytical PDF from Input Parameters

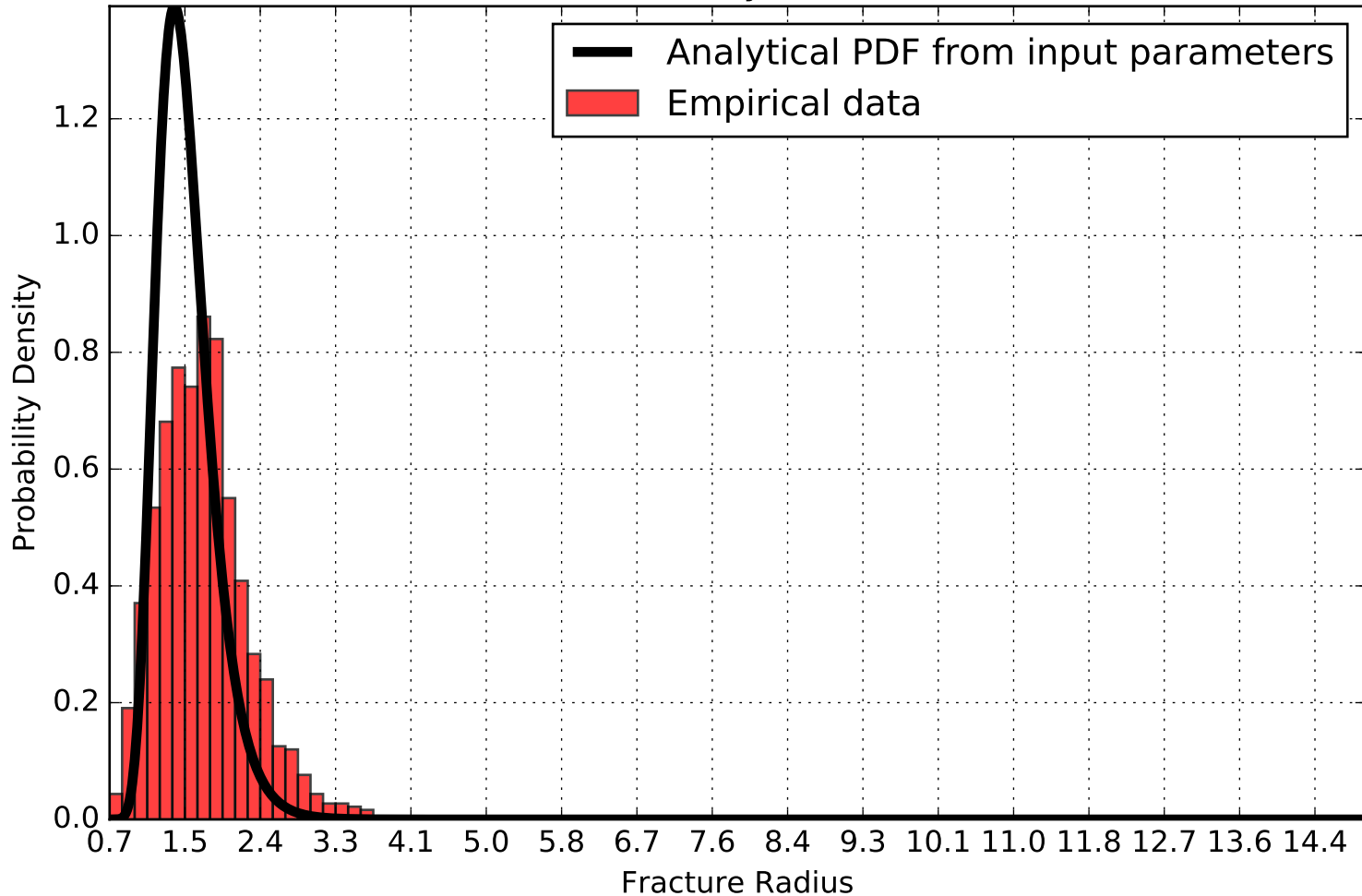


Q-Q Plot of Data vs. Analytical Distribution At Same Point (Bin Center)

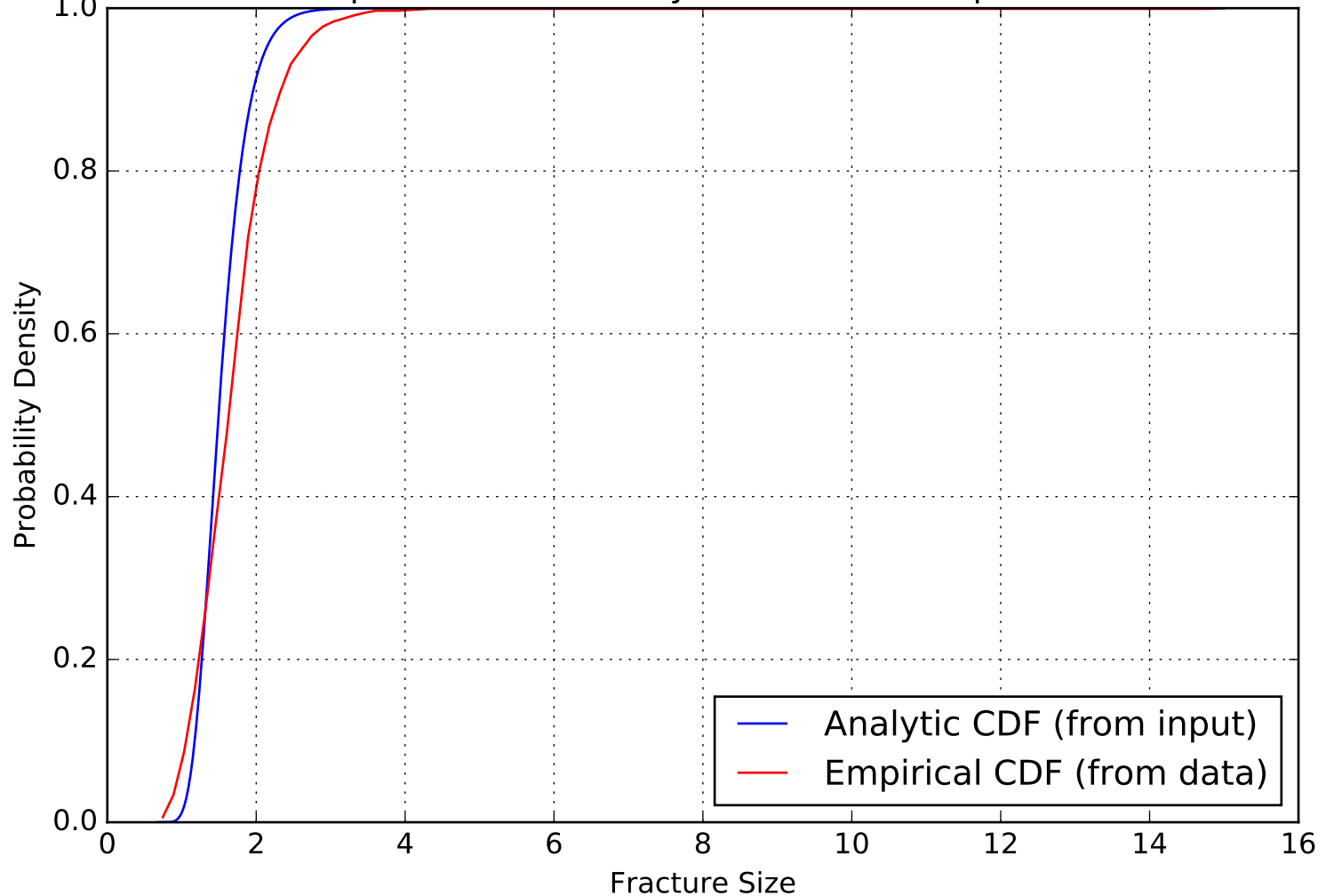


Rectangular Family 2:
Global Family 4
Number of Vertices: 4
Aspect Ratio: 1.2
Beta (Rotation Around Normal Vector): 0 Degrees
Theta: 45 Degrees
Phi: 45 Degrees
Kappa: 8
Layer: Entire domain
Distribution: Lognormal
Mean: 0.5
Standard Deviation: 0.3
Minimum Radius: 0.5m
Maximum Radius: 15m
Family Insertion Probability: 0.25

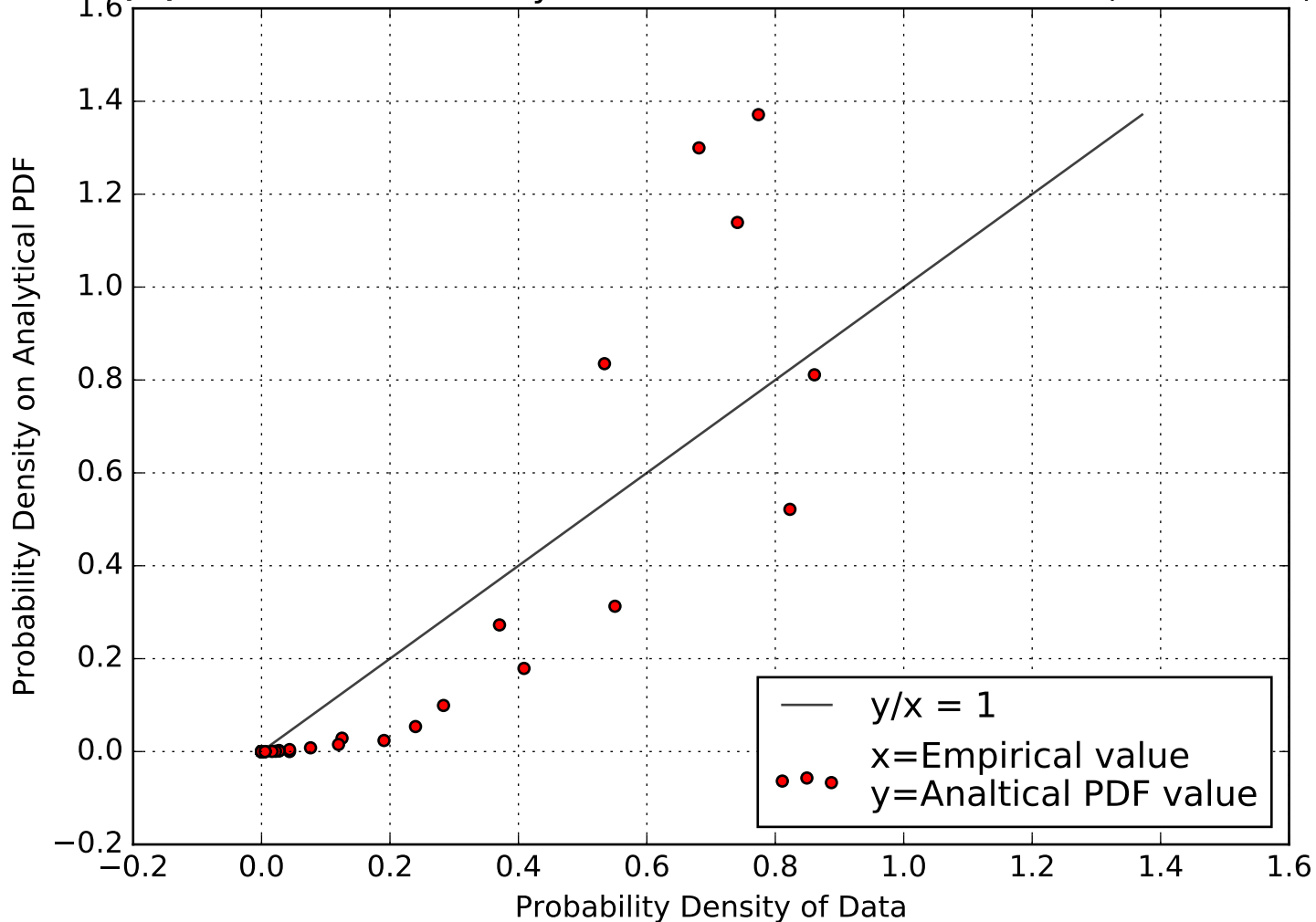
Histogram of Obtained Radii Sizes & Lognormal Distribution PDF.
Family #4



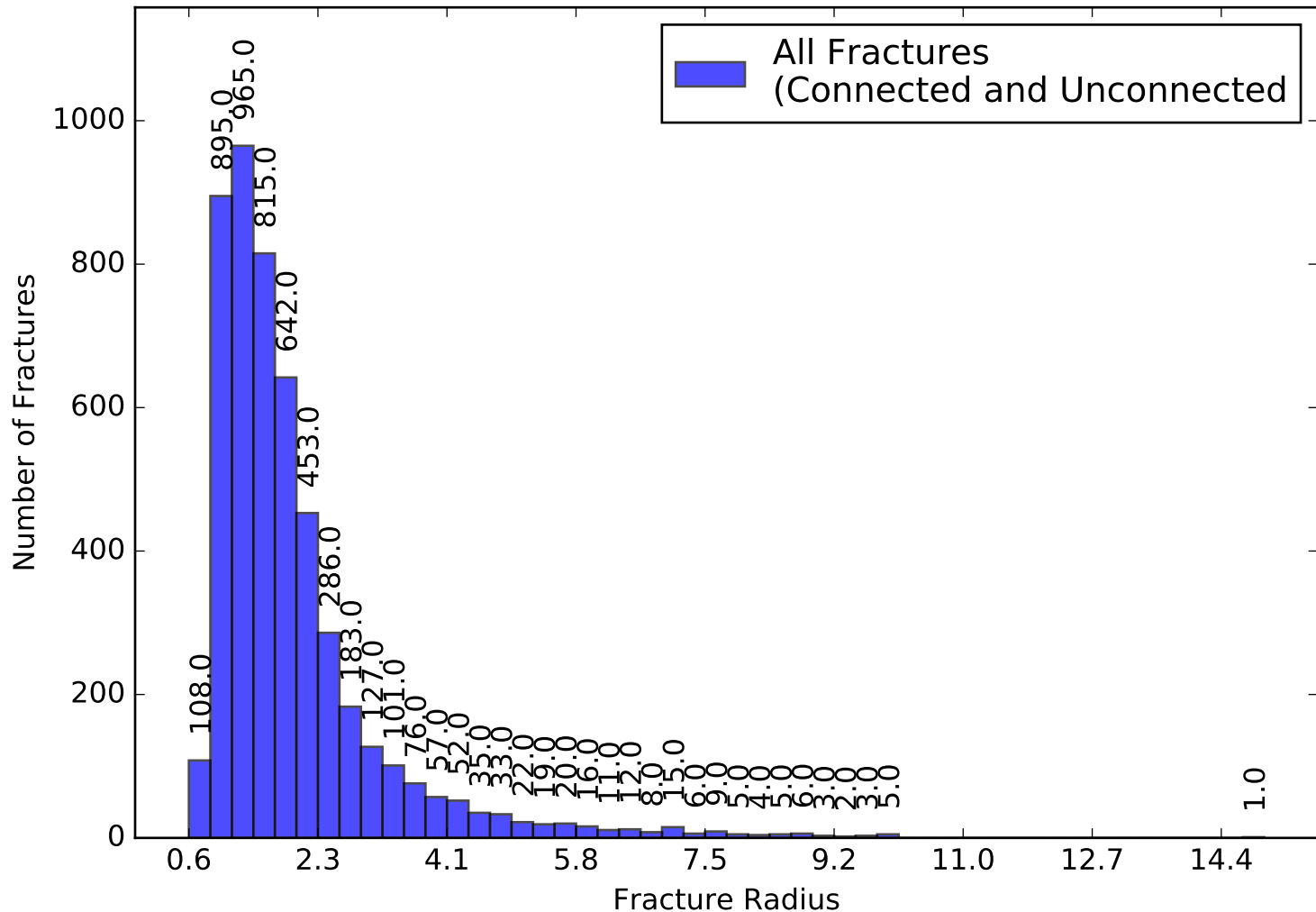
CDF of Empirical Data & Analytical PDF from Input Parameters



Q-Q Plot of Data vs.Analytical Distribution At Same Point (Bin Center)



Fractures Sizes From All Families



Rejection Reasons

