Package 'PlotBivInvGaus'

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Type Package

Title Density Contour Plot for Bivariate Inverse Gaussian Distribution

Version 0.1.0

Description Create the density contour plot for bivariate inverse Gaussian distribution for given non negative random variables.

License GPL-2

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Encoding UTF-8

Depends plotly

RoxygenNote 7.2.1

Suggests knitr

VignetteBuilder knitr

NeedsCompilation no

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PlotBivInvGaus *Density Contour Plot for Bivariate Inverse Gaussian Distribution*

Description

Density Contour Plot for Bivariate Inverse Gaussian Distribution

Usage

```
PlotBivInvGaus(x, y, u1, u2, l1, l2, r, v)
```

Arguments

x	vector defining range of non negative variable x
y	vector defining range of non negative variable y
u1	mean value of variable x
u2	mean value of variable y
l1	shape parameter of variable x
l2	shape parameter of variable y
r	correlation coefficient of variable X and Y
v	correlation coefficient of bivariate normal distribution (Z1, Z2)

Value

Density contour plot for bivariate inverse Gaussian distribution

References

Continuous Bivariate Distributions Second Edition by N. Balakrishnan, Chin-Diew Lai

Examples

```
x=seq(1,10,0.2)
y=seq(1,10,0.2)
v=0.3
r=0.5
l1=4
l2=4
u1=3
u2=3
PlotBivInvGaus(x,y,u1,u2,l1,l2,r,v)
```

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