

Package ‘fpow’

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Title Computing the noncentrality parameter of the noncentral F distribution

Author Ali Baharev <ali.baharev@gmail.com>

Maintainer Ali Baharev <ali.baharev@gmail.com>

Description Returns the noncentrality parameter of the noncentral F distribution if probability of type I and type II error, degrees of freedom of the numerator and the denominator are given. It may be useful for computing minimal detectable differences for general ANOVA models. This program is documented in the paper of A. Baharev, S. Kemeny, On the computation of the noncentral F and noncentral beta distribution; Statistics and Computing, 2008, 18 (3), 333-340.

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URL <http://dx.doi.org/10.1007/s11222-008-9061-3>,
<http://reliablecomputing.eu/ncbeta.html>

Depends R (>= 2.14.1)

Repository CRAN

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NeedsCompilation yes

R topics documented:

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| ncparamF | <i>Computing the noncentrality parameter of the noncentral F distribution</i> |
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Description

Returns the noncentrality parameter of the noncentral F distribution if probability of Type I and Type II error, degrees of freedom of the numerator and the denominator in the F test statistics are given.

Usage

```
ncparamF(type1, type2, nu1, nu2)
```

Arguments

| | |
|-------|--|
| type1 | Probability of Type I error |
| type2 | Probability of Type II error |
| nu1 | Degrees of freedom of the numerator in the F test statistics |
| nu2 | Degrees of freedom of the denominator in the F test statistics |

Value

The noncentrality parameter is returned.

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* **power of F-Test, minimal detectable differences, ANOVA**

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