

# ath1121501cdf

April 29, 2025

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ath1121501cdf	<i>ath1121501cdf</i>
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## Description

environment describing the CDF file

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ath1121501dim	<i>ath1121501dim</i>
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## Description

environment describing the CDF dimensions

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i2xy	<i>Convert (x,y)-coordinates to single-number indices and back.</i>
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## Description

Convert (x,y)-coordinates on the chip (and in the CEL file) to the single-number indices used in AffyBatch and CDF environment, and back.

## Usage

i2xy(i)  
xy2i(x,y)

## Arguments

x	numeric. x-coordinate (from 1 to 712)
y	numeric. y-coordinate (from 1 to 712)
i	numeric. single-number index (from 1 to 506944)

**Details**

Type `i2xy` and `xy2i` at the `R` prompt to view the function definitions.

**See Also**

[ath1121501cdf](#)

**Examples**

```
xy2i(5,5)
i      = 1:(712*712)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

# Index

## \* datasets

ath1121501cdf, 1

ath1121501dim, 1

i2xy, 1

ath1121501cdf, 1, 2

ath1121501dim, 1

i2xy, 1

xy2i (i2xy), 1