

Number formatting

```

In[1]:= number2Printed[number_] := Module[{returnedString = "e", foo, bar, idx, oom},
|模組
|
If[number == 1, Return["1.0e+00"], If[number == 0, Return["0.0e+00"],
|如果 |返回 |如果 |返回
|
If[number < 1,
|如果
|
For[idx = 1, StringLength[returnedString] == 1, idx = idx + 1,
|For迴圈 |字串長度
|
foo = Floor[number / 10^(-idx)];
|弱取整
|
If[foo == 0, ,
|如果
|
bar = Round[(number - foo * 10^(-idx)) / 10^(-idx - 1)];
|捨入
|
If[StringLength[ToString[idx]] == 1,
|... |字串長度 |轉換成字串
|
returnedString = StringJoin[ToString[foo],
|字串結合 |轉換成字串
|
ToString[bar], returnedString, "-0", ToString[idx]],
|轉換成字串 |轉換成字串
|
returnedString = StringJoin[ToString[foo], ".", ToString[bar],
|字串結合 |轉換成字串 |轉換成字串
|
returnedString, "-", ToString[idx]]
|轉換成字串
|
]
|
];
Return[returnedString]
|返回
|
,
oom = (StringLength[ToString[DecimalForm[Floor[number] * 1.]]] - 2);
|字串長度 |轉換成字串 |十進位形式 |弱取整
|
foo = Floor[number / 10^oom];
|弱取整
|
bar = Round[(number - foo * 10^oom) / 10^(oom - 1)];
|捨入
|
If[StringLength[ToString[oom]] == 1,
|... |字串長度 |轉換成字串
|
returnedString = StringJoin[ToString[foo],
|字串結合 |轉換成字串
|
ToString[bar], returnedString, "+0", ToString[oom]],
|轉換成字串 |轉換成字串
|

```

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    returnedString = StringJoin[ToString[foo], ".", ToString[bar],
    字串結合 轉換成字串 轉換成字串
    returnedString, "+", ToString[oom]]
    轉換成字串
];
Return[returnedString]
返回
];
]
]
]

```

Import data

```

In[8]:= recombinationRates = {1*^-7, 1*^-8, 1*^-9};
populationSize = 1*^4;

In[3]:= histograms = Table[0, {idx, recombinationRates}];
    表格

Do[histograms[[idx]] = Transpose[Interpreter[
    Do迴圈 轉置 解譯器
    DelimitedSequence[DelimitedSequence["Number", {"[", " ", " ", "]" }], {"[", " ", " ", "]" }]]
    分隔序列 分隔序列 數
    Import[StringJoin[NotebookDirectory[], number2Printed[recombinationRates[[idx]]],
    導入 字串結合 筆記本目錄
    "_histogram.txt"]]], {idx, Length[recombinationRates]}]
    長度

In[5]:= data = Table[0, {idx, recombinationRates}];
    表格

Do[data[[idx]] = Interpreter[
    Do迴圈 解譯器
    DelimitedSequence[DelimitedSequence["Number", {"[", " ", " ", "]" }], {"[", " ", " ", "]" }]]
    分隔序列 分隔序列 數
    Import[StringJoin[NotebookDirectory[], number2Printed[recombinationRates[[idx]]],
    導入 字串結合 筆記本目錄
    "_times.txt"]]], {idx, Length[recombinationRates]}]
    長度

```

```

In[19]:= Table[
  表格
  {ListPlot[histograms[[idx]], ImageSize → Medium, AxesLabel → {"l(base)", "P(l)(1/base)"},
    點集圖 影像尺寸 中等 座標軸標籤
    ListPlot[{Transpose[{data[[idx, 1]]/populationSize, data[[idx, 3]]}],
      點集圖 轉置
      Transpose[{data[[idx, 2]]/populationSize, data[[idx, 3]]}],
      轉置
      ImageSize → Medium, AxesLabel → {"τ(N×gen)", "l(base)"}], {idx, 3}]
    影像尺寸 中等 座標軸標籤 數值化

```





