

# Geometric series "Type 2"

## Description

The function is based on a geometric series where some of input parameters can be modified in order to attempt to keep a geometric distribution.

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## Namelist :

```
&MESH_FUNCTION_DATA  Function_Name="GEOMETRIC_SERIE_2",  
                      Number_of_Cells= 32           ,  
                      Length= 1.0                   ,  
                      Left_Cell_Size= 2.0d-02       ,  
                      Right_Cell_Size= 5.0d-02      ,  
                      Reverse_Ordering= .false. /
```

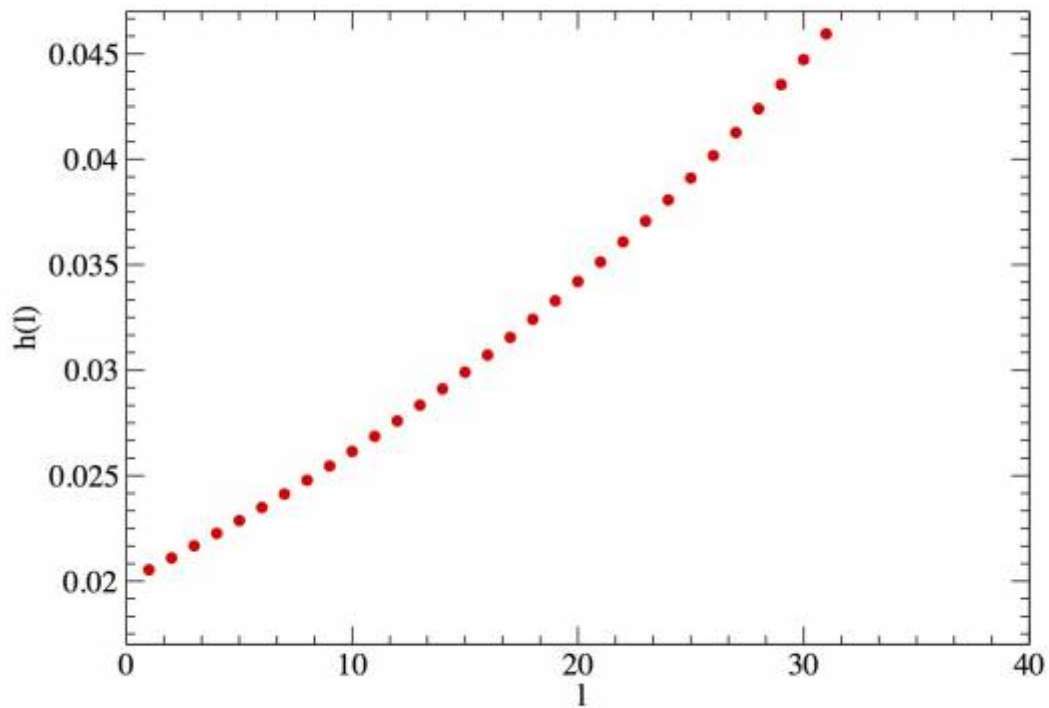
## Principle :

Here, the Left\_Cell\_Size and Right\_Cell\_Size are associated to the minimum and maximum cell sizes at the tips.

The cell size distribution  $h(l)$  is computed by estimation of the cell ratio in regard to the length, The Minimum cell size (Left\_Cell\_Size), the maximum cell size (Right\_Cell\_Size) and the cell number (Number\_of\_Cells).

The procedure is recursive and **different parameters can be adjusted** at each step in order to find the best compromise.

It can be relevant to check the data after computing.



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