

```
In [1]: using LinearAlgebra
```

```
In [2]: lambda=4.5  
mu=7.3
```

```
Out[2]: 7.3
```

```
In [3]: a1=mu*ones(27)  
a3=lambda*ones(27)  
a2=[-lambda, -(mu+lambda)ones(26)..., -mu]  
A=Tridiagonal(a1,a2,a3)
```


Out[4]: 28-element Vector{Float64}:

```
-23.190907067935594  
-22.97558296560806  
-22.61971942326365  
-22.127791631424344  
-21.505985867495507  
-20.762121699738803  
-19.90555365166377  
-18.947053563467282  
-17.8986751298931  
-16.77360231802679  
-15.58598357125999  
-14.350753884405758  
-13.0834469874733  
  ⋮  
-8.014016428740039  
-6.8263976819732415  
-5.701324870106908  
-4.652946436532733  
-3.6944463483362258  
-2.837878300261149  
-2.094014132504443  
-1.4722083685756537  
-0.9802805767363099  
-0.6244170343919467  
-0.4090929320643733  
-7.277919910922247e-16
```

In [5]: `K28=eigvecs(A')[(:,28)]`

Out[5]: 28-element Vector{Float64}:

```
0.7874031705869717
0.4853855161152557
0.29921024966008897
0.18444467444800003
0.1136987719199999
0.07008828406027452
0.043205106612497934
0.02663328489811484
0.016417778361851525
0.010120548305251028
0.006238694160771468
0.0038457703730780442
0.002370680366965653
⋮
0.000342319483090002
0.0002110188594388131
0.00013008011883233636
8.018637462276119e-5
4.9429956959409885e-5
3.0470521413098395e-5
1.8783198131294333e-5
1.1578683779713957e-5
7.1375447956952334e-6
4.39985638096156e-6
2.7122402345887854e-6
1.6719289118143017e-6
```

In [6]: `Pe=K28/sum(K28)`

```
Out[6]: 28-element Vector{Float64}:
 0.3835621458845425
 0.23644241869595048
 0.14575217590846254
 0.08984723172439471
 0.055385279830106264
 0.03414161085417539
 0.021046198471751928
 0.01297368398943596
 0.007997476431844043
 0.0049299512251093835
 0.0030390110291771567
 0.0018733629631912726
 0.0011548127855287378
  ⋮
 0.0001667516723538337
 0.00010279212679334747
 6.336500966722519e-5
 3.906062239764748e-5
 2.4078465861648048e-5
 1.4842889914599362e-5
 9.149726659651564e-6
 5.6402424615016065e-6
 3.476861791327425e-6
 2.143270967282712e-6
 1.3211944317645632e-6
 8.144349237301792e-7
```

```
In [7]: sum(Pe)
```

```
Out[7]: 1.0
```

```
In [8]: Pe[1]
```

```
Out[8]: 0.3835621458845425
```

```
In [9]: 1-Pe[1]
```

```
Out[9]: 0.6164378541154575
```

```
In [ ]:
```