

```
In[200]:= (*Expected distance between reciprocally connected pairs*)  
r = NIntegrate[x * w[x] * c[x] ^ 2 / 0.02451, {x, 0, Sqrt[2]}]
```

```
Out[200]= 0.20001
```

```
In[201]:= (*Probability of connection in third pair when other two are reciprocally connected*)  
p = c[4 / Pi * r]
```

```
Out[201]= 0.164749
```

```
In[202]:= (*Probabilities for motif 9, 15 and 16 are then:*)  
(1 - p) ^ 2  
2 * p * (1 - p)  
p ^ 2
```

```
Out[202]= 0.697643
```

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Out[203]= 0.275214
```

```
Out[204]= 0.0271424
```