

```
image := READBMP("C:\Users\Jojo\Documents\Study\Volosatova 2\LR2\img\lena.bmp" )
```



image

```
n := 0 .. rows(image) - 1
```

```
m := 0 .. cols(image) - 1
```

$$dx := \frac{10}{\text{rows}(\text{image})} \quad dy := \frac{10}{\text{cols}(\text{image})} \quad r := 1$$

$$A_{n,m} := e^{-\frac{[(n \cdot dx)^4 + (m \cdot dy)^4]}{r^4}}$$

Модель импульсного отклика пространственного фильтра

```
IW := icfft( cfft(A) · cfft(image) )
```

$$\text{IW} := \frac{\text{IW} \cdot 255}{\max(\text{IW})}$$

$$\text{I2} := \text{recenter}(\text{IW})$$



IW

$$\text{res} := \text{icfft} \left(\frac{\overrightarrow{\text{cfft}(\text{IW})}}{\text{cfft}(\text{A}) + .0000001} \right)$$

$$\text{res} := \frac{\text{res} \cdot 255}{\max(\text{res})}$$

$$\text{res} := \text{Re}(\text{res})$$



res

output := WRITEBMP("result.bmp",res)