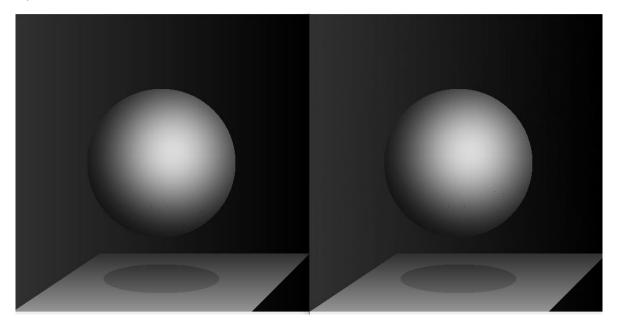
Sprawozdanie EX3

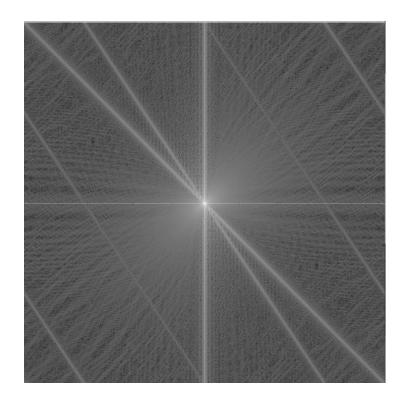
Jan Bronicki 249011

1. Zadanie 1

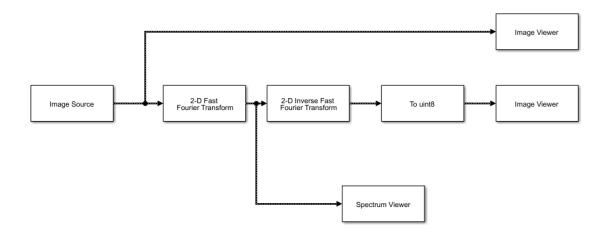
Obraz przed i po transformacie. Mimo tego że transformata Fouriera może być stratna nie widać żadnych zniekształceń.



Widmo obrazu:



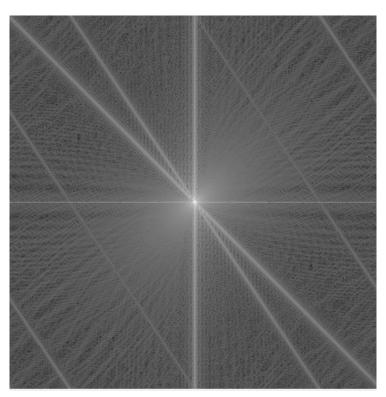
Model:



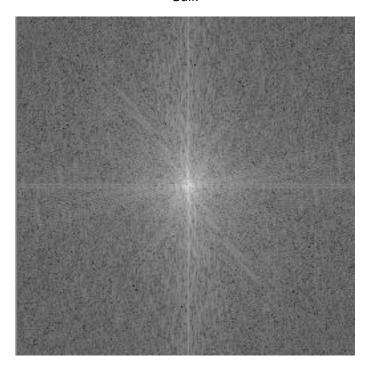
2. Zadanie 2

Wybrany obraz ma wysokie częstotliwości (gull.png) oraz niskich (ball.png). Po porównaniu ich widm widać, że widmo o niskich częstotliwościach jest bardziej skupione w jednym punkcie, a o wysokich jest bardziej rozproszone.



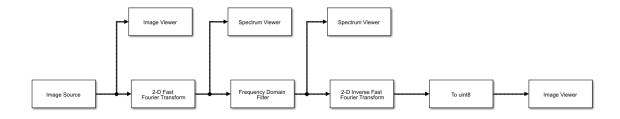


Gull:

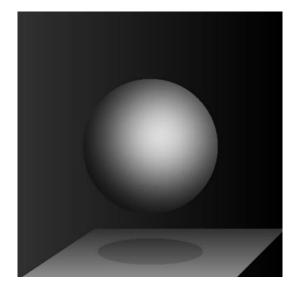


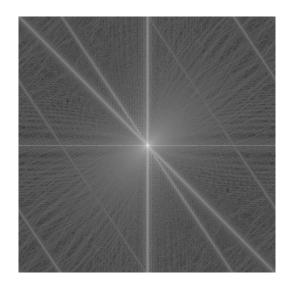
3. Zadanie 3

Schemat:



Oryginalny obraz:

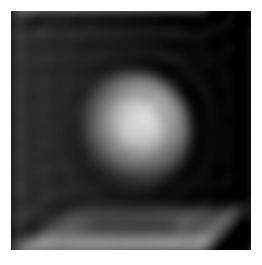


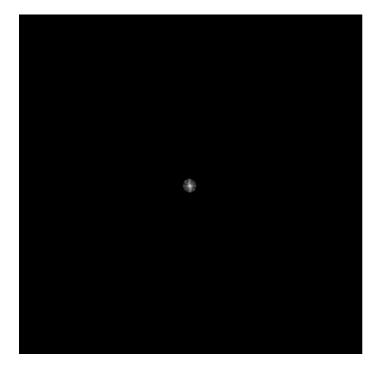


Filtracja dolnoprzepustowa

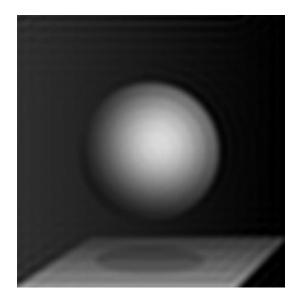
Mask radius = 10

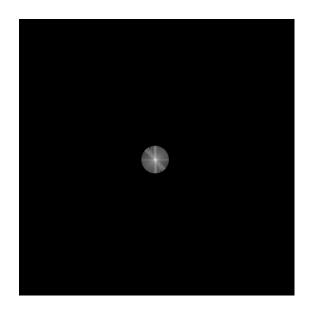
Obraz:



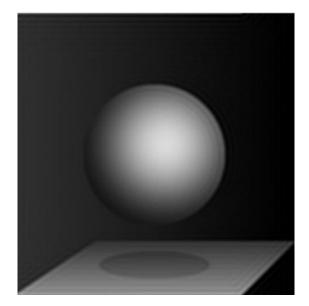


Obraz:

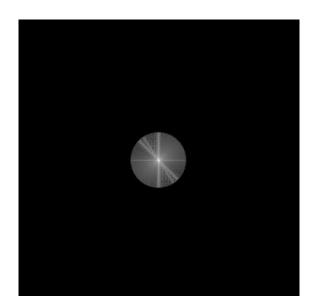




Obraz:



Widmo

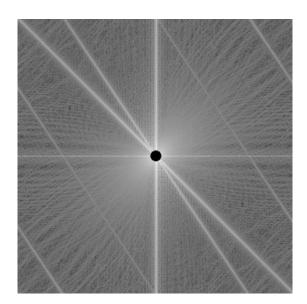


Filtracja dolnoprzepustowa

Mask radius = 10

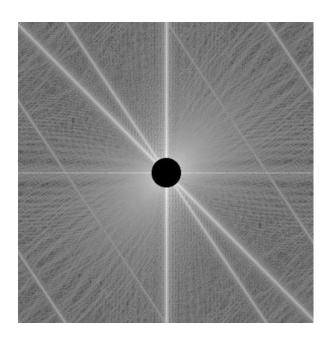
Obraz:





Obraz:





Obraz:

