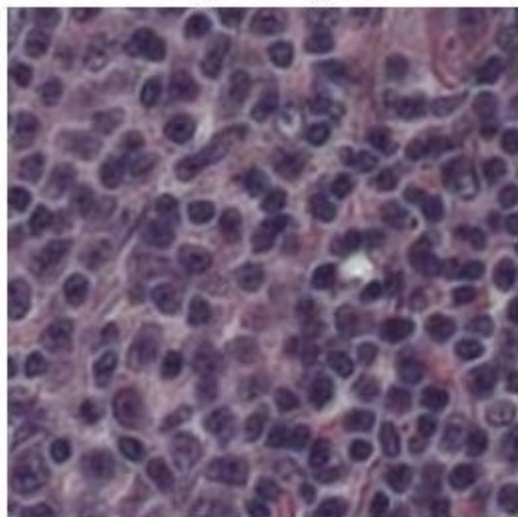


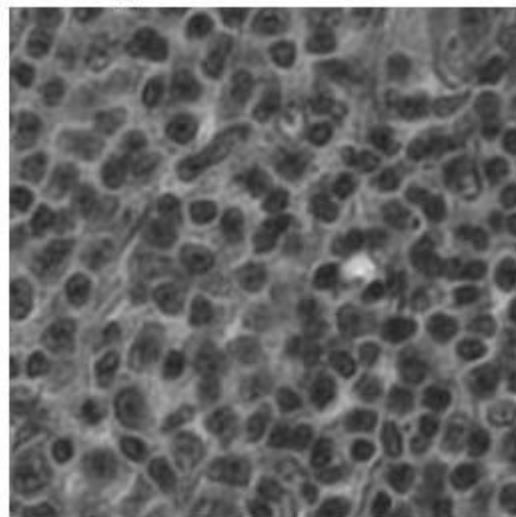
# Etapas do Exercício 3

Hiago Matheus Brajato

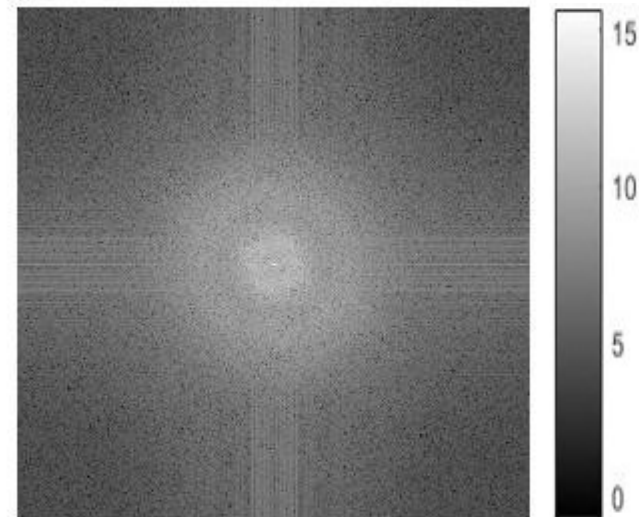
**Imagem Original**



**Imagem em Níveis de Cinza**



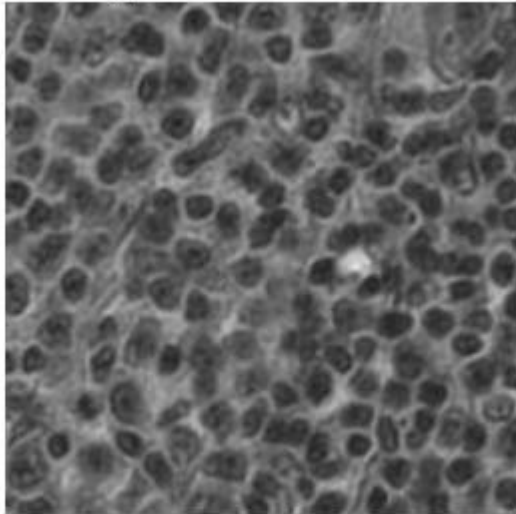
**Imagem no Domínio de Fourier Centralizada**



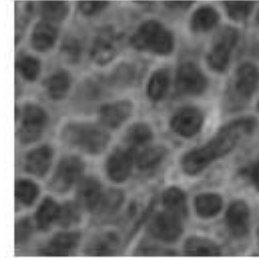
# Imagem dividida em 4 blocos

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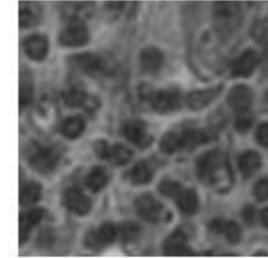
Imagem em Níveis de Cinza



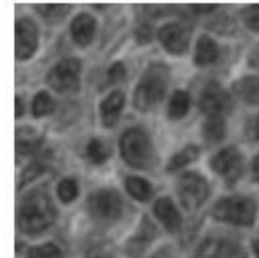
Quadrante Superior Esquerdo



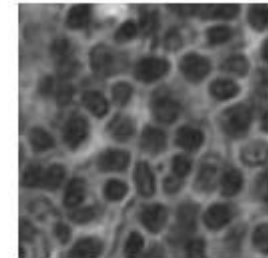
Quadrante Superior Direito



Quadrante Inferior Esquerdo



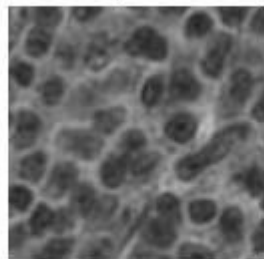
Quadrante Inferior Direito



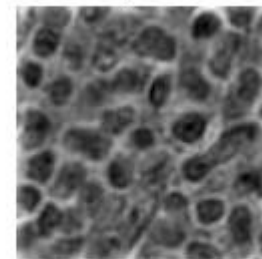
**Filtro Passa-Alta**



Quadrante Superior Esquerdo

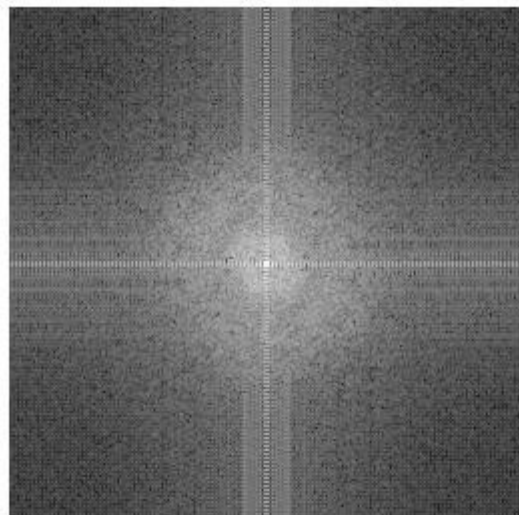


Quadrante Superior Esquerdo

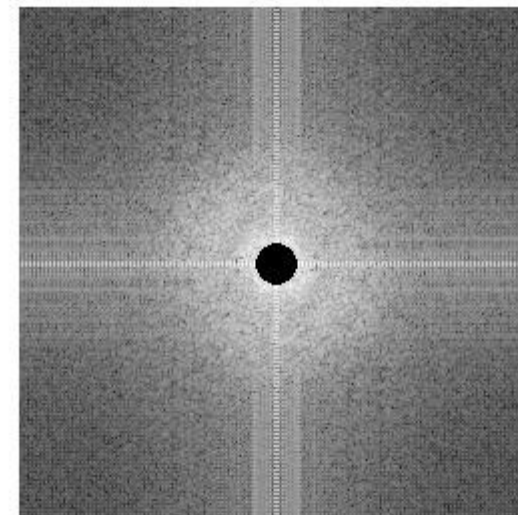


**Filtro Passa-**  
**Alta** →

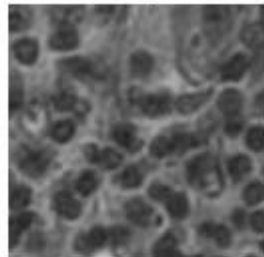
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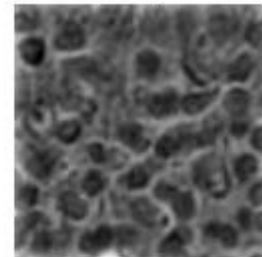
Quadrante Superior Esquerdo



Quadrante Superior Direito

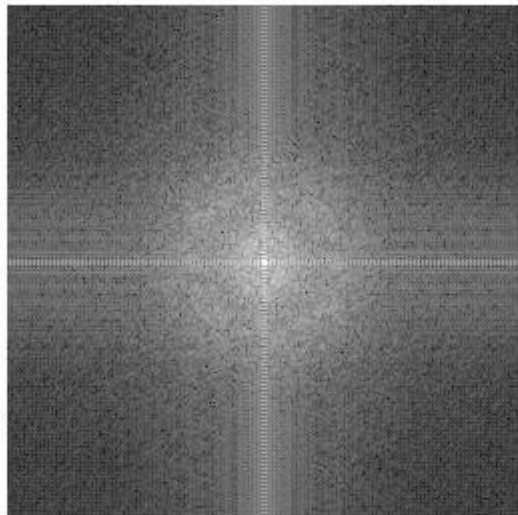


Quadrante Superior Direito

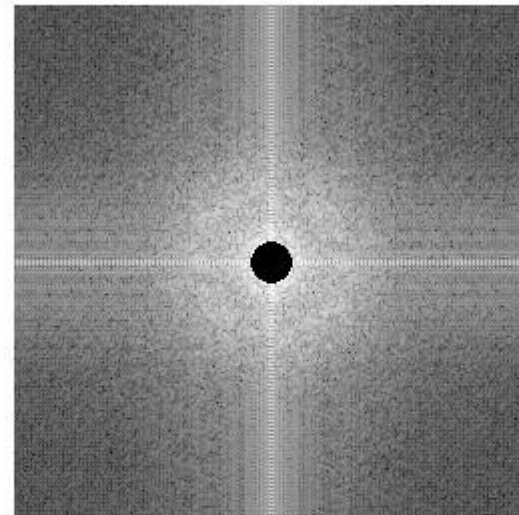


**Filtro Passa-**  
**Alta** →

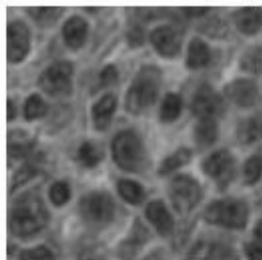
Quadrante Superior Direito



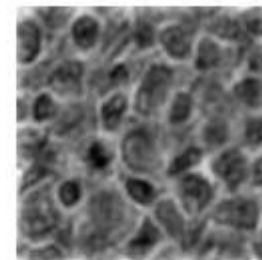
Quadrante Superior Direito



Quadrante Inferior Esquerdo

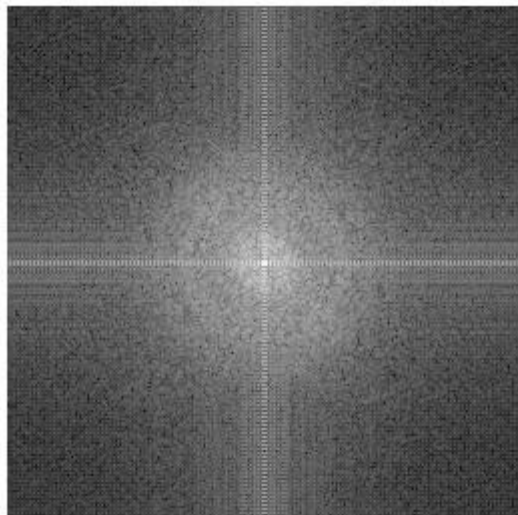


Quadrante Inferior Esquerdo

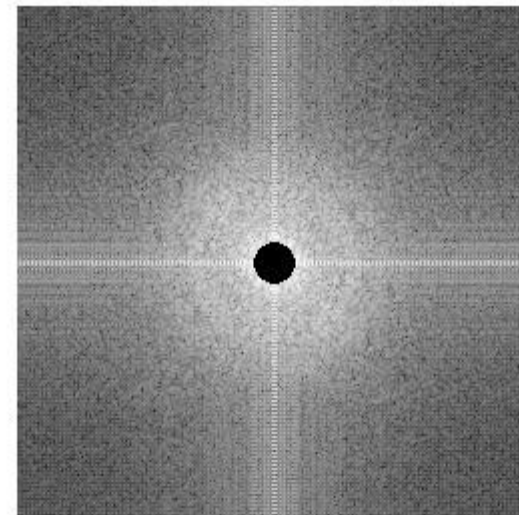


**Filtro Passa-  
Alta** →

Quadrante Inferior Esquerdo

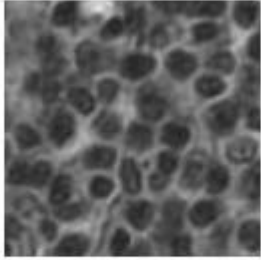


Quadrante Inferior Esquerdo

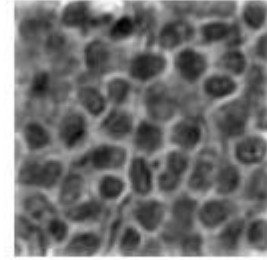




Quadrante Inferior Direito

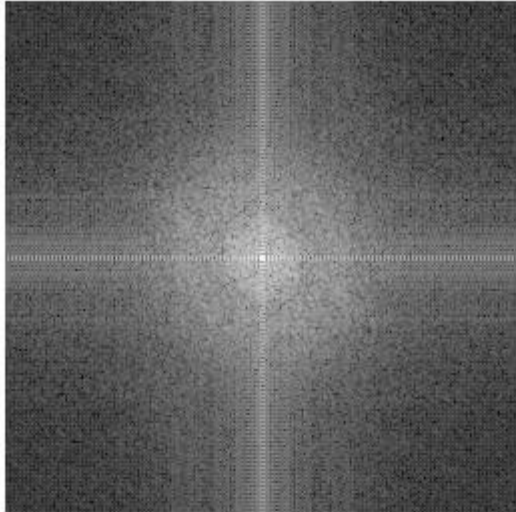


Quadrante Inferior Direito



**Filtro Passa-**  
**Alta** →

Quadrante Inferior Direito



Quadrante Inferior Direito

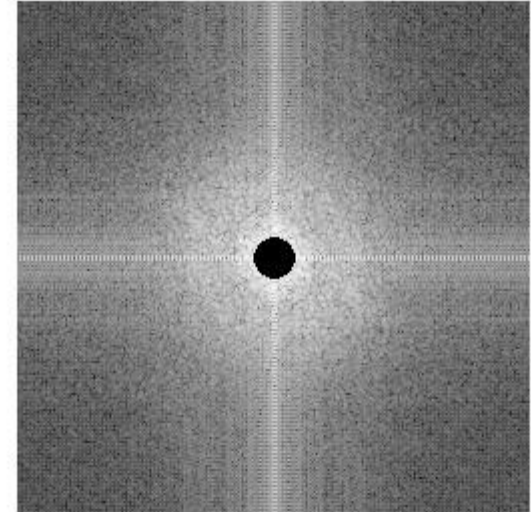




Imagem em Níveis de Cinza

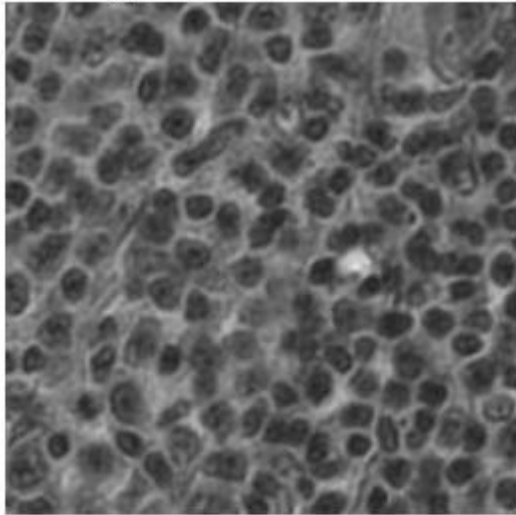
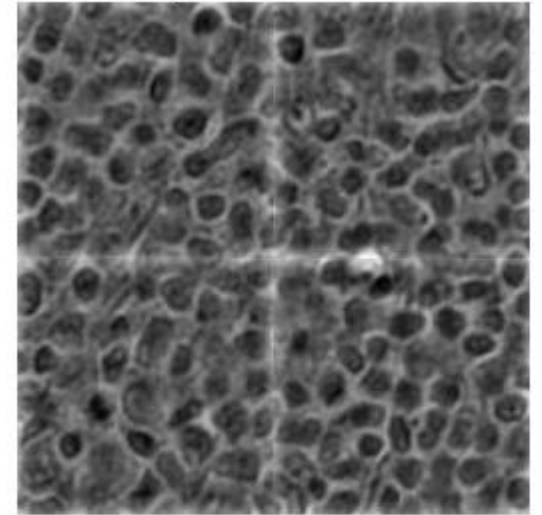
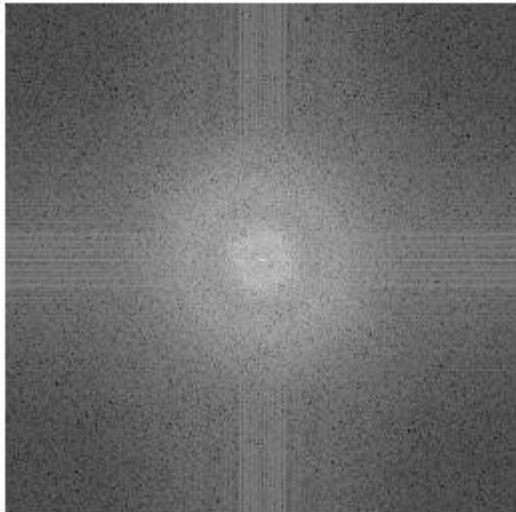


Imagem Reconstruída

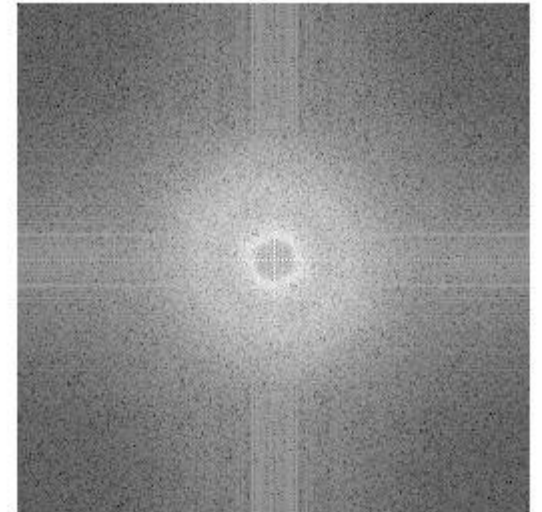


**Filtro Passa-  
Alta** →

Imagem no Domínio de Fourier Centralizada



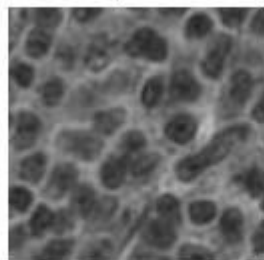
Espectro da Imagem Reconstruída



**Filtro Passa-Baixa**



Quadrante Superior Esquerdo

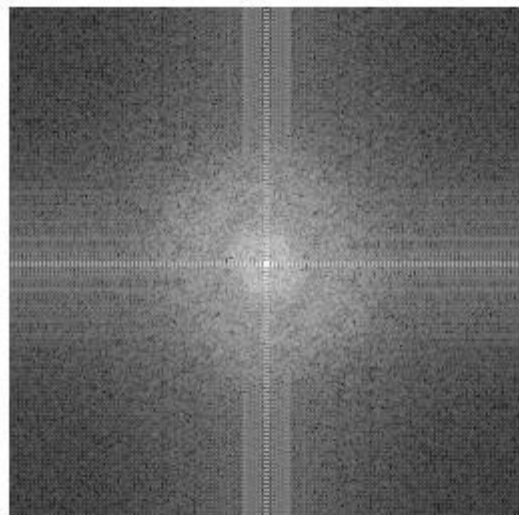


Quadrante Superior Esquerdo

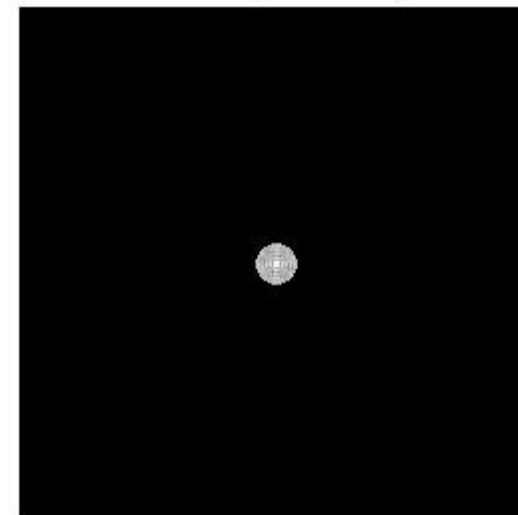


**Filtro Passa-**  
**Baixa** →

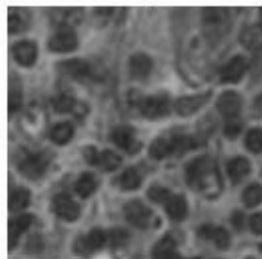
Quadrante Superior Esquerdo



Quadrante Superior Esquerdo



Quadrante Superior Direito

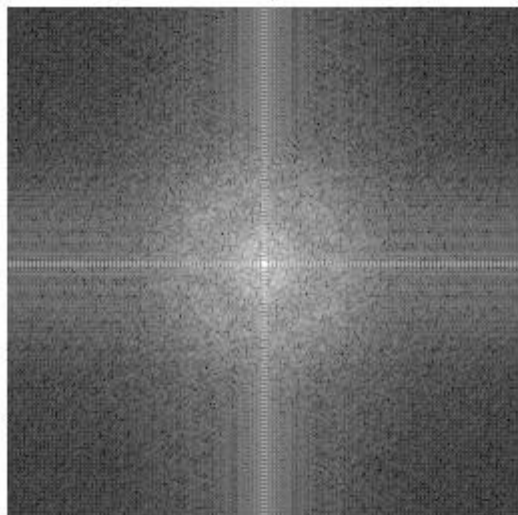


Quadrante Superior Direito

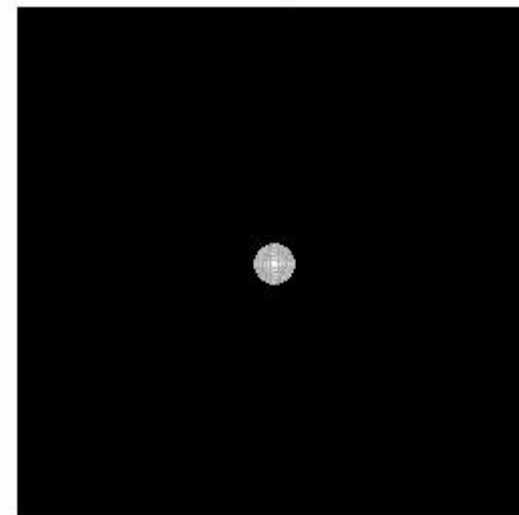


**Filtro Passa-**  
**Baixa**

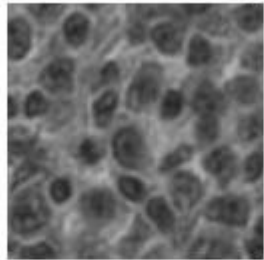
Quadrante Superior Direito



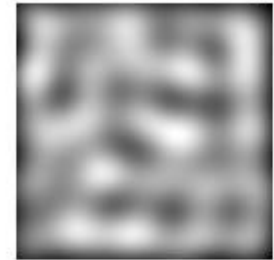
Quadrante Superior Direito



Quadrante Inferior Esquerdo

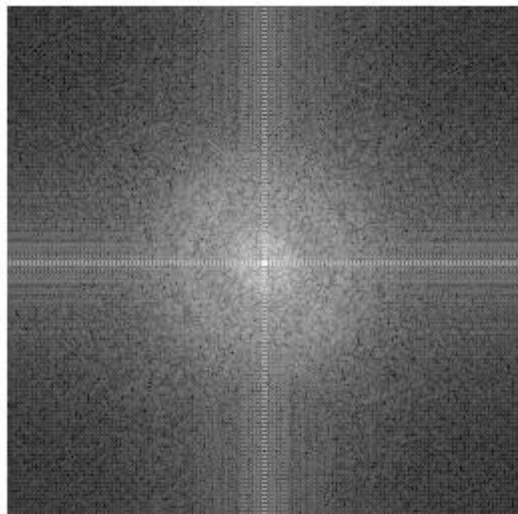


Quadrante Inferior Esquerdo

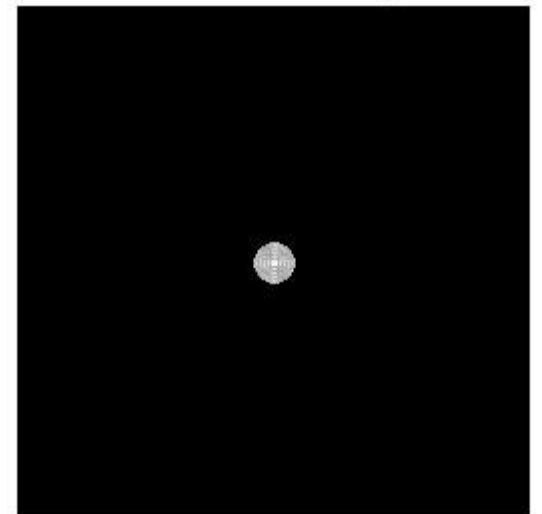


**Filtro Passa-**  
**Baixa**

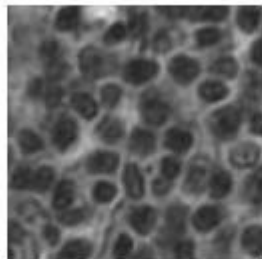
Quadrante Inferior Esquerdo



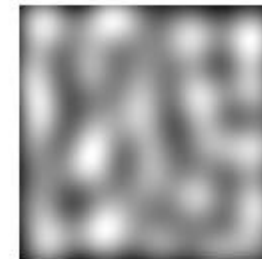
Quadrante Inferior Esquerdo



Quadrante Inferior Direito

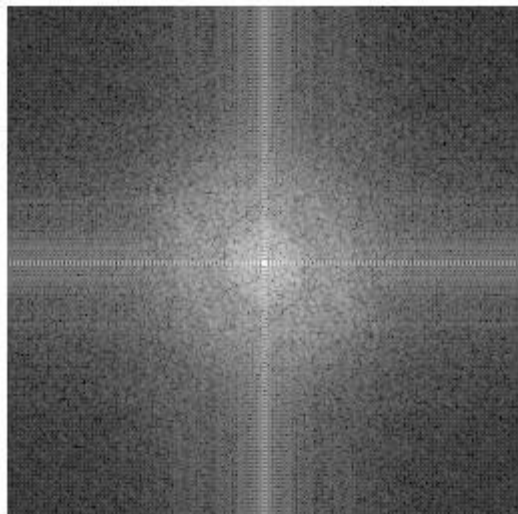


Quadrante Inferior Direito



**Filtro Passa-**  
**Baixa**

Quadrante Inferior Direito



Quadrante Inferior Direito

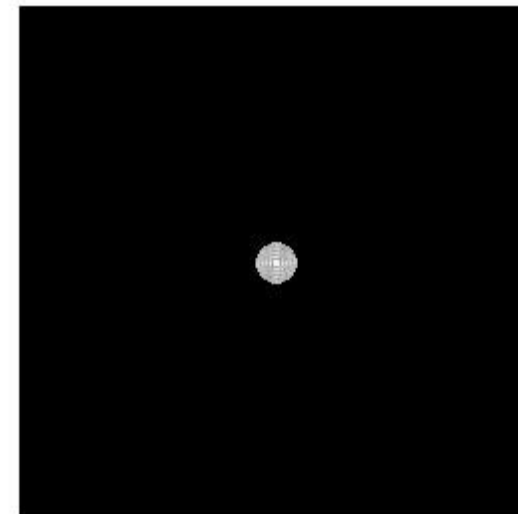
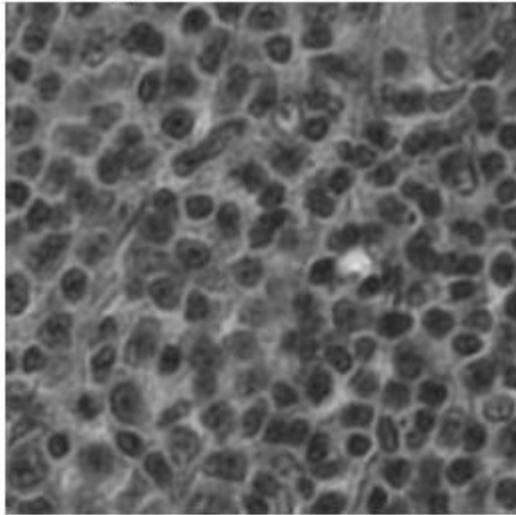


Imagem em Níveis de Cinza



**Filtro Passa-**  
**Baixa**

Imagem no Domínio de Fourier Centralizada

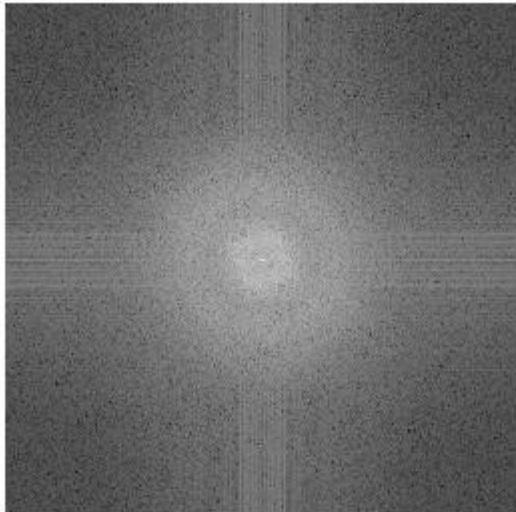
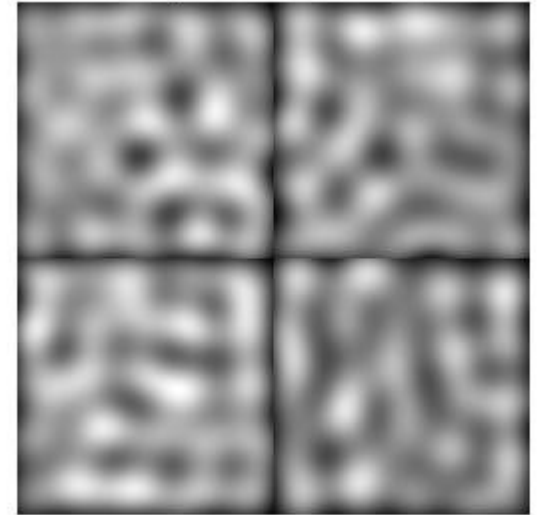


Imagem Reconstruída



Espectro da Imagem Reconstruída

