

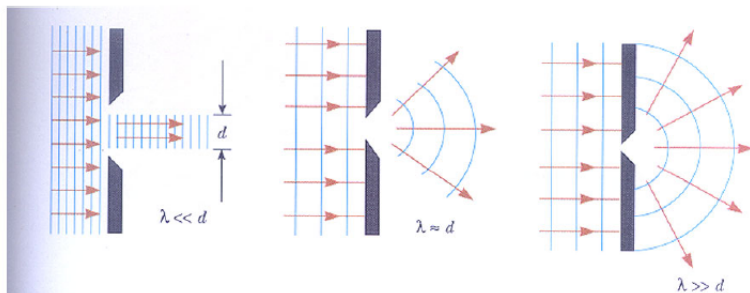
# Difracção

Ricardo Mendes Ribeiro



Universidade do Minho

Quando o obstáculo é da ordem de grandeza do comprimento de onda, ocorre difracção



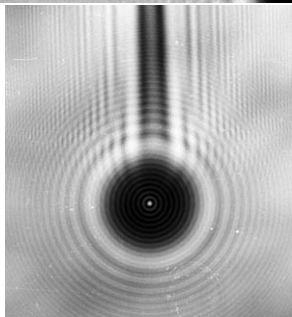
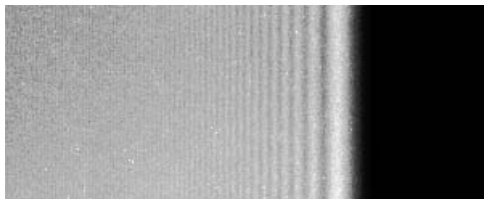
# Difracção no nosso dia-a-dia



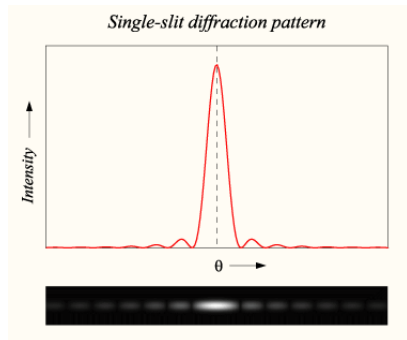
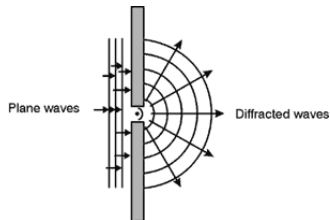
# Difracção no nosso dia-a-dia



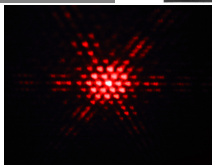
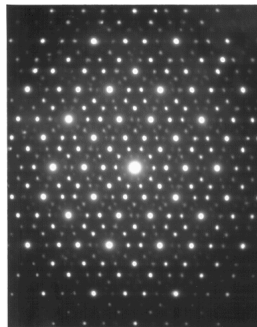
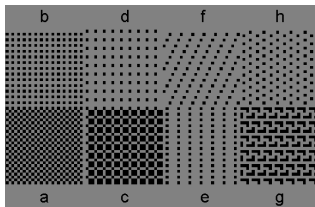
# Difracção por uma esquina e Ponto de Poisson



# Difracção por uma fenda simples



# Difracção por estruturas periódicas



# Difracção por aberturas circulares

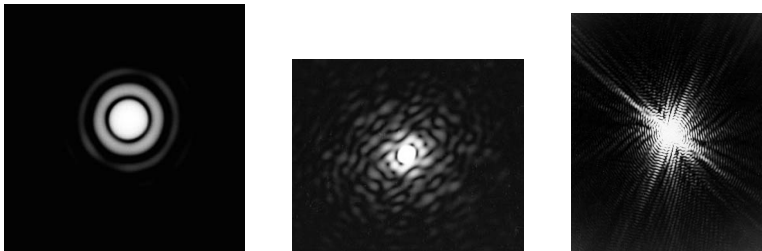
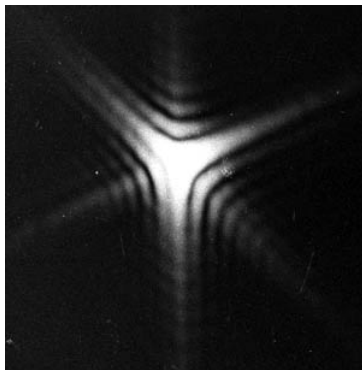
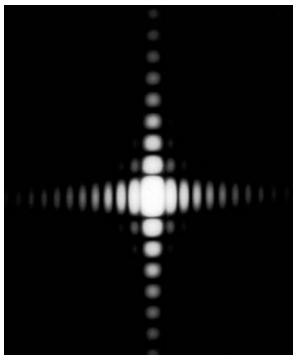


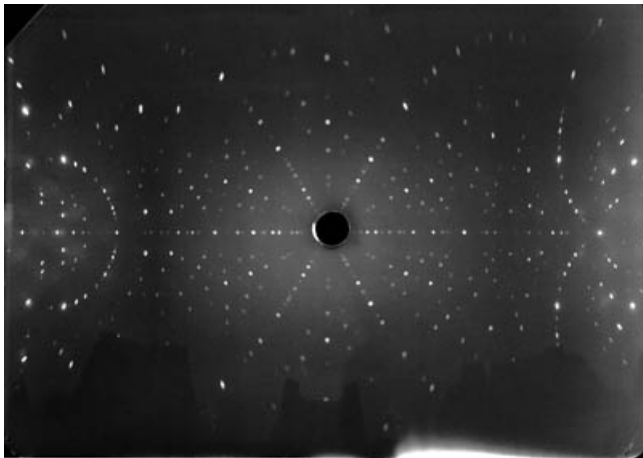
Figura: Circular perfeita, Abertura deformada, Abertura irregular



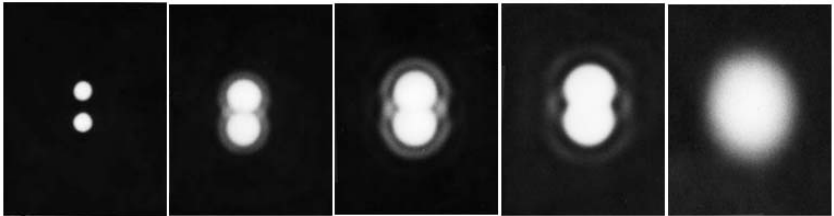
# Difracção por aberturas regulares



# Difracção por um cristal de Si



# Poder de resolução



**Figura:** Mostra o efeito de diminuir a abertura de um telescópio quando se observa pontos muito próximos e pequenos