

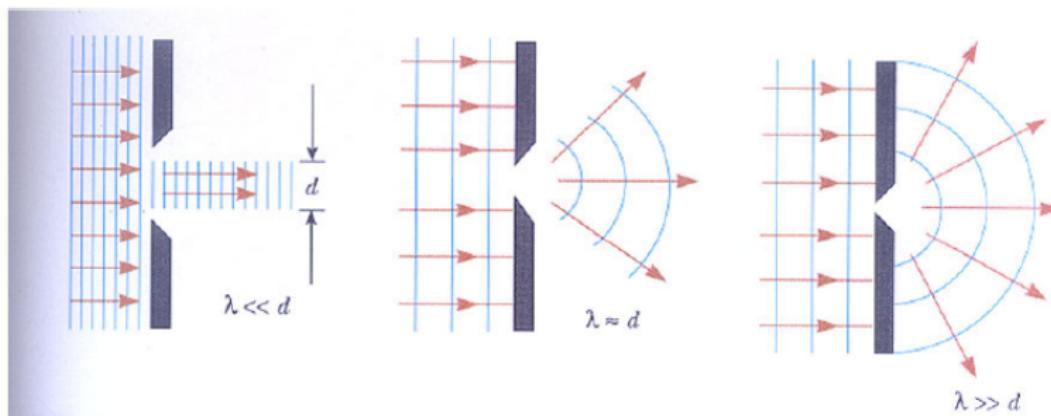
Difracção

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



Difracção no nosso dia-a-dia



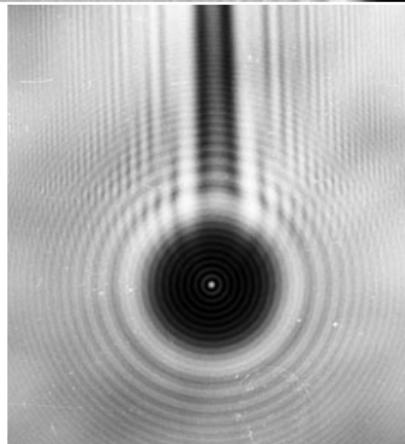
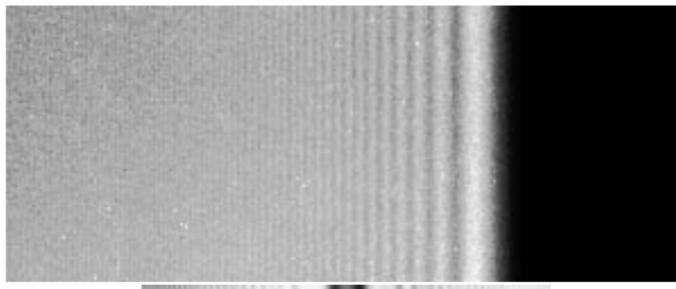
Difracção no nosso dia-a-dia



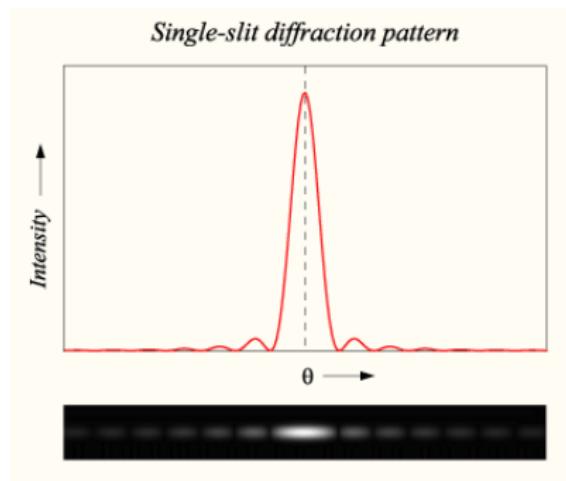
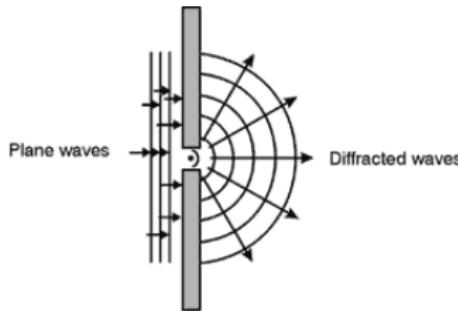
Difracção no nosso dia-a-dia



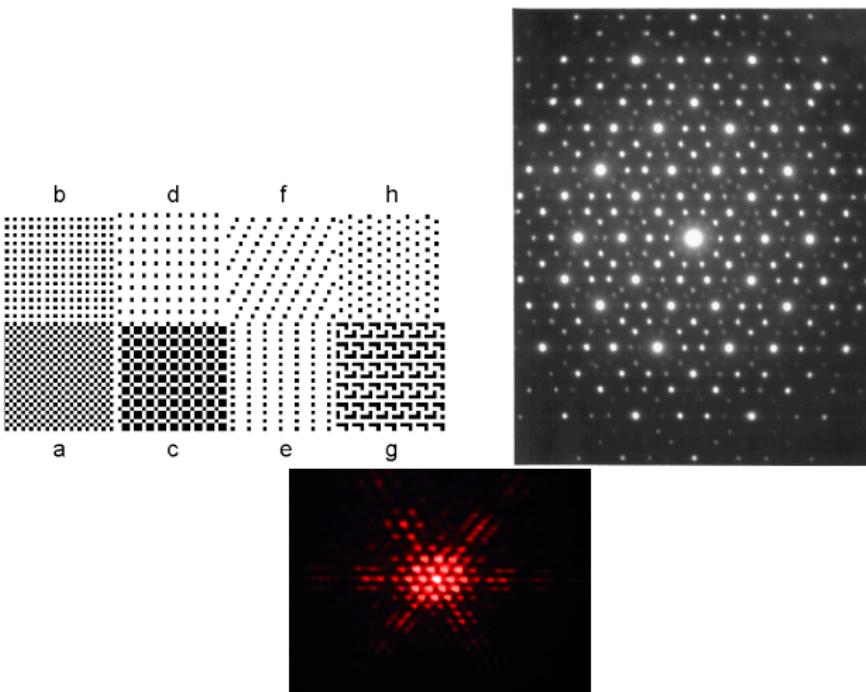
Difracção por uma esquina e Ponto de Poisson



Difracção por uma fenda simples



Difracção por estruturas periódicas



Difracção por aberturas circulares

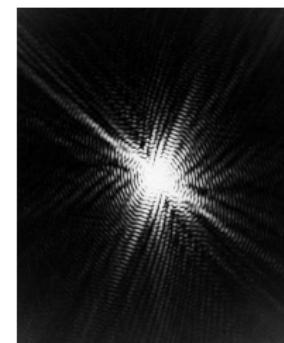
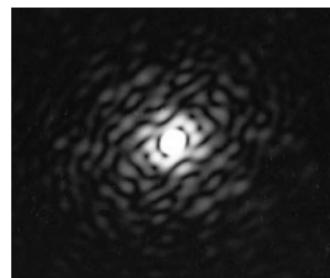
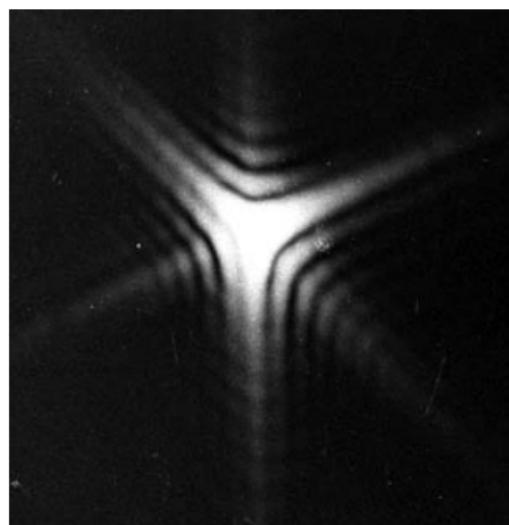
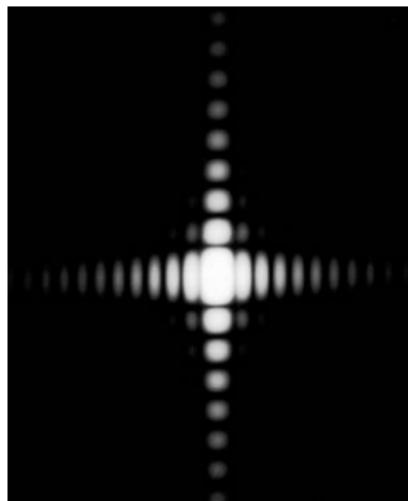
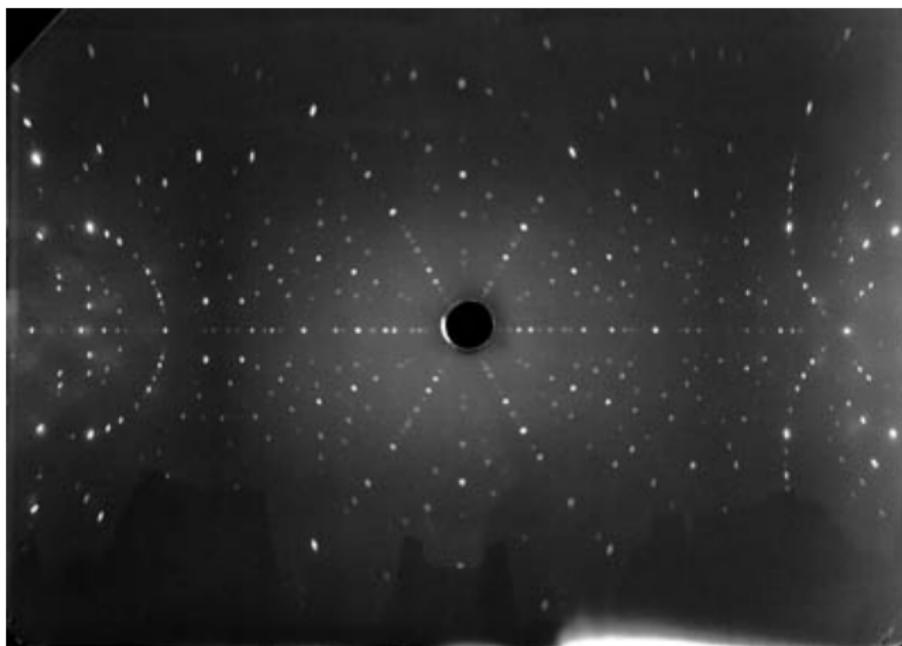


Figura: Circular perfeita, Abertura deformada, Abertura irregular

Difracção por aberturas regulares



Difracção por um cristal de Si



Poder de resolução

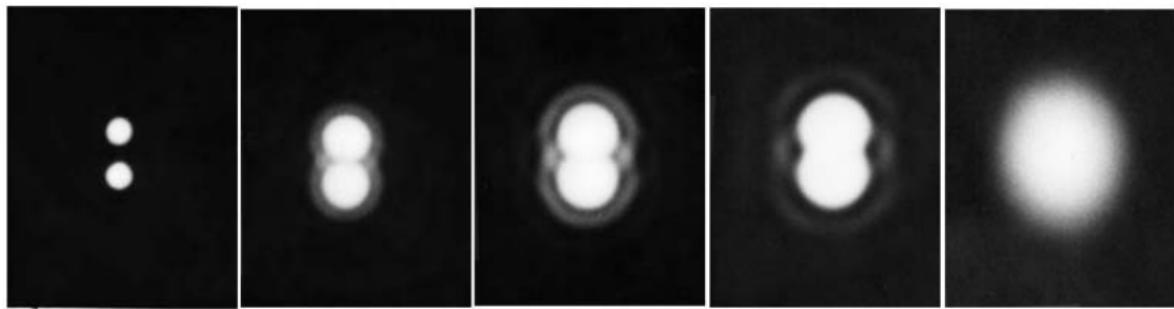


Figura: Mostra o efeito de diminuir a abertura de um telescópio quando se observa pontos muito próximos e pequenos