

Modelos Atômicos

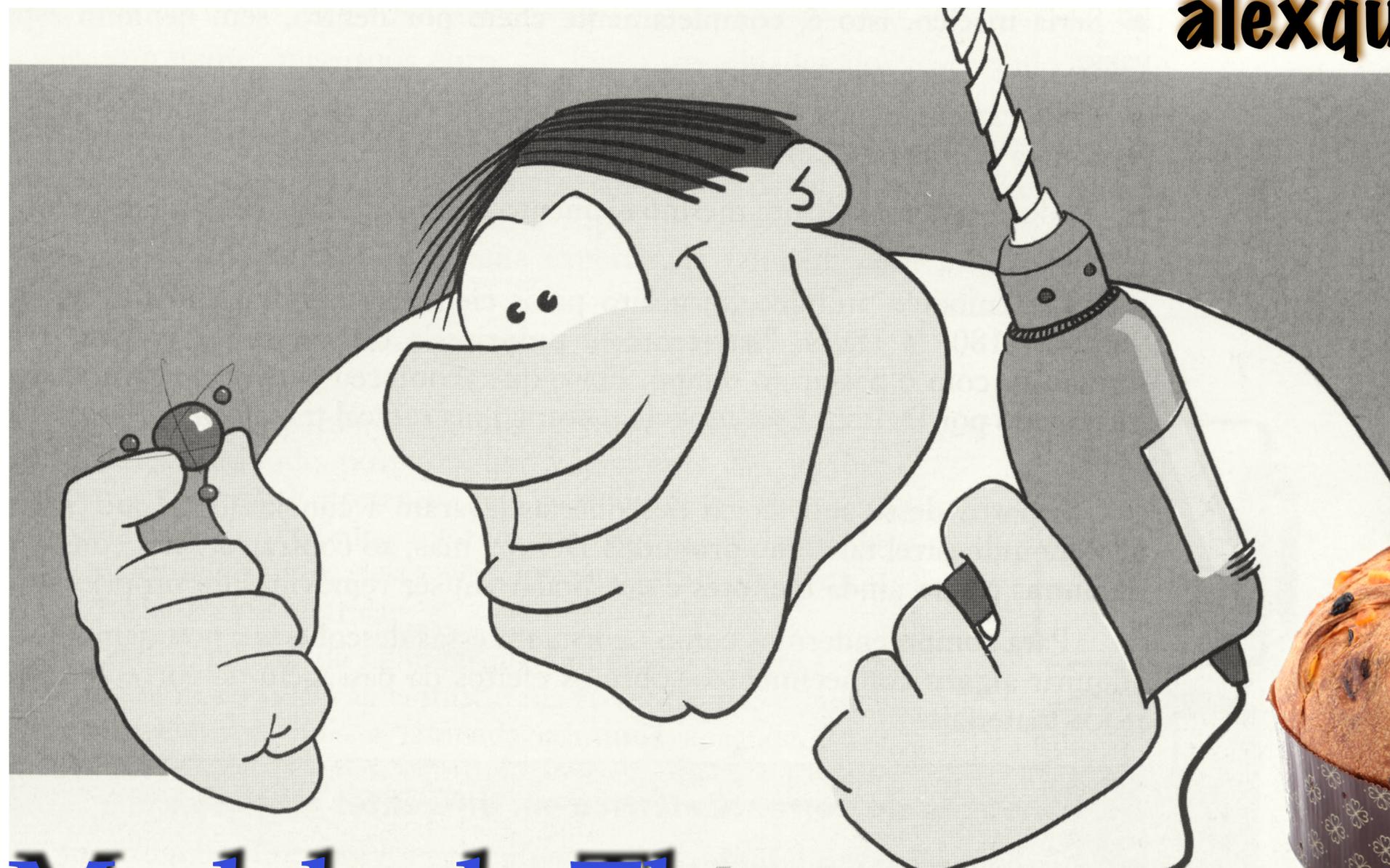
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acesse o canal



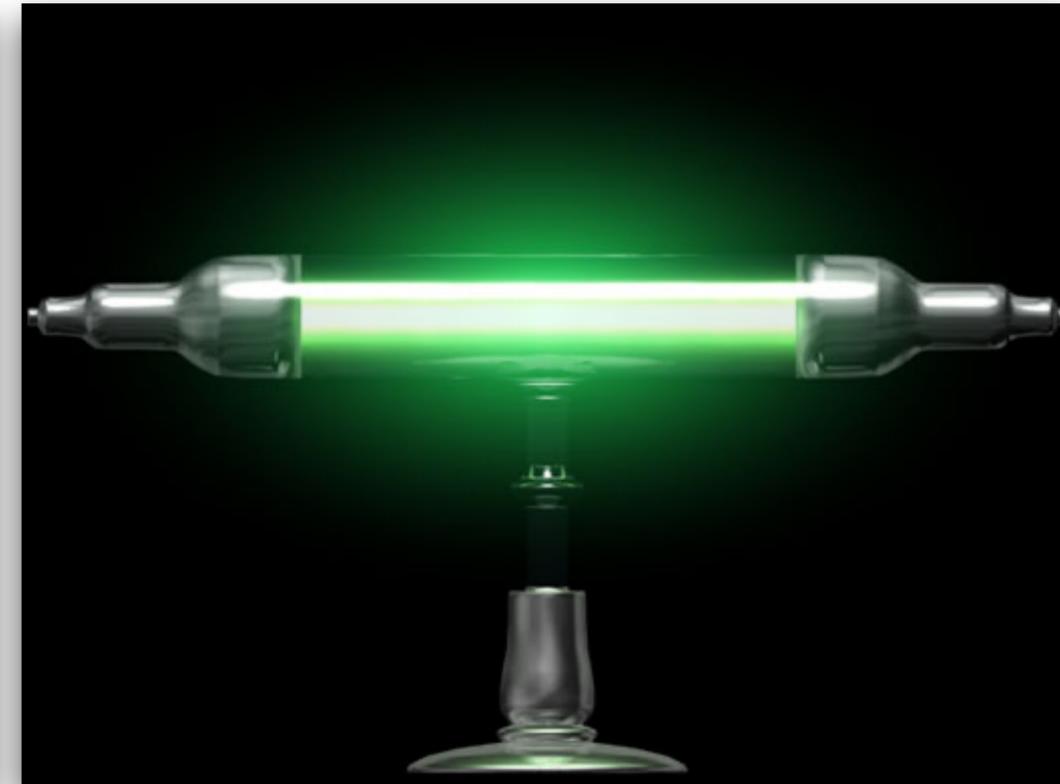
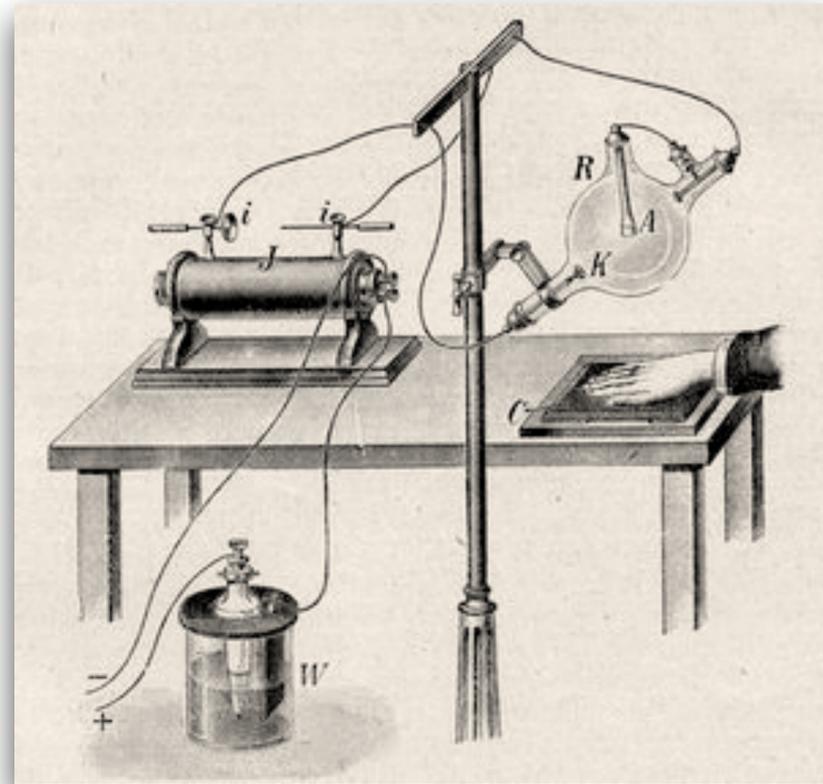
Modelo de Thomson



Prof: Alex

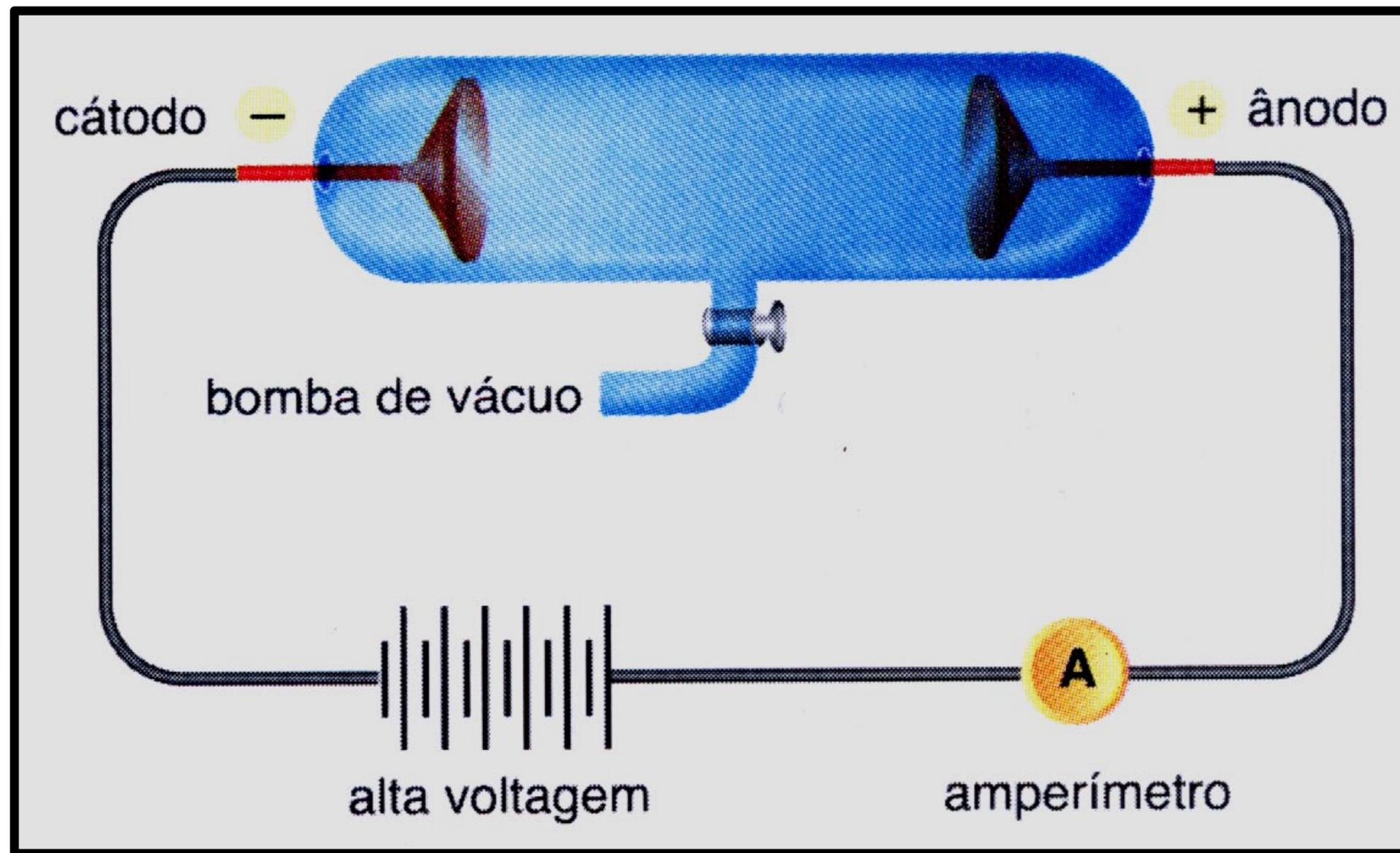


“Dentre as várias evidências da natureza elétrica da matéria, destaca-se os estudos, envolvendo diversos cientistas, com descargas elétricas em tubos de raios catódicos e canais.”

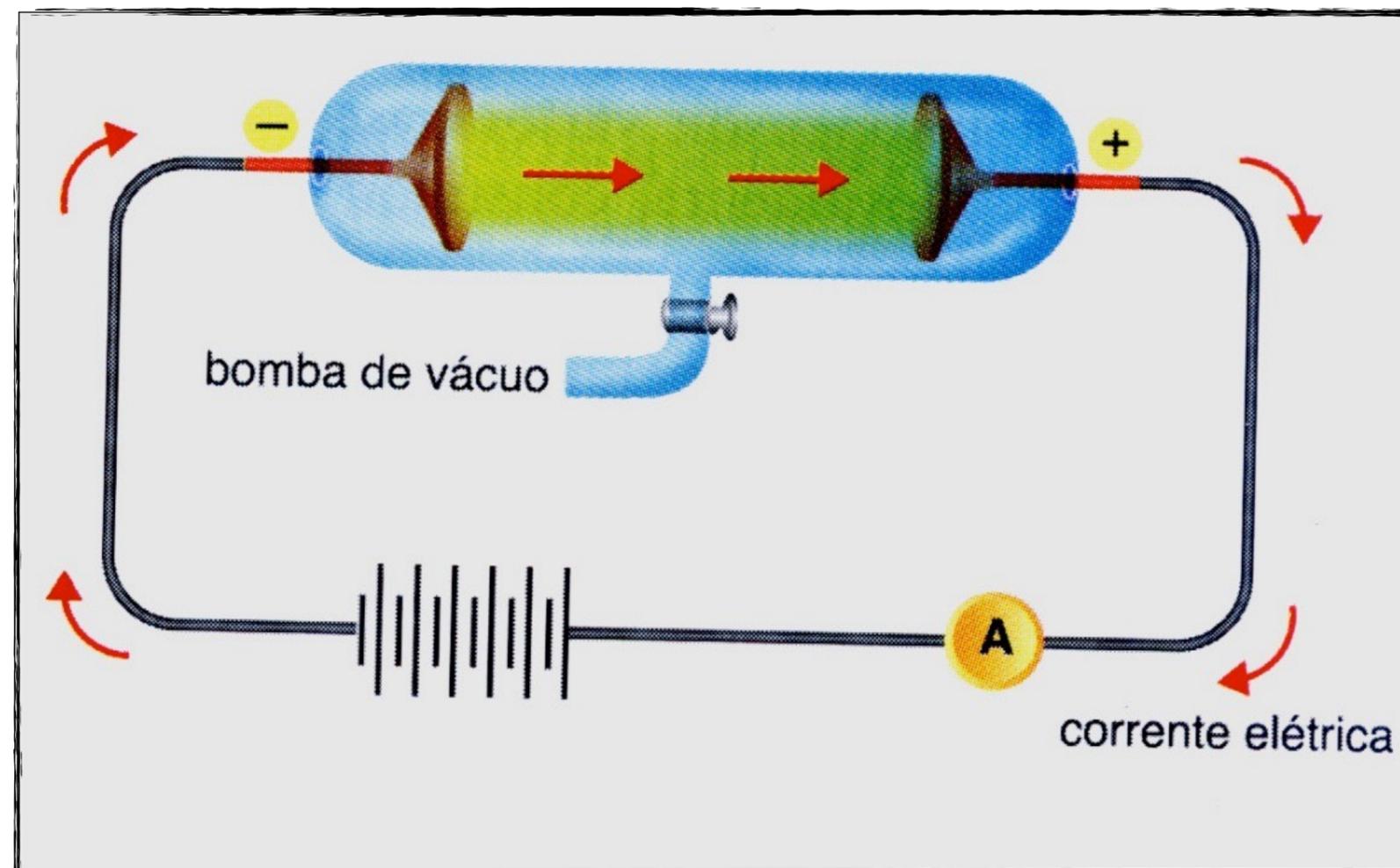
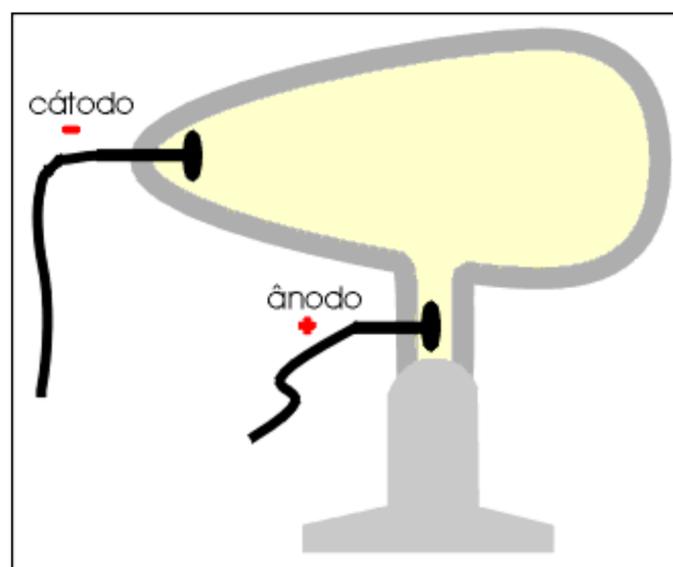




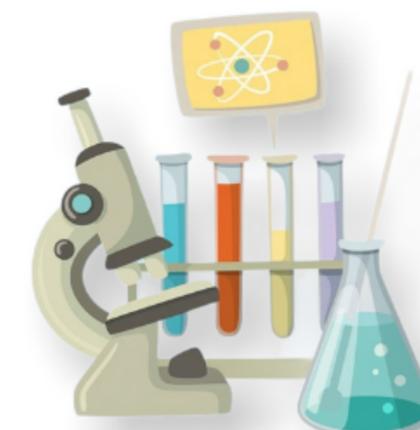
Raios catódicos



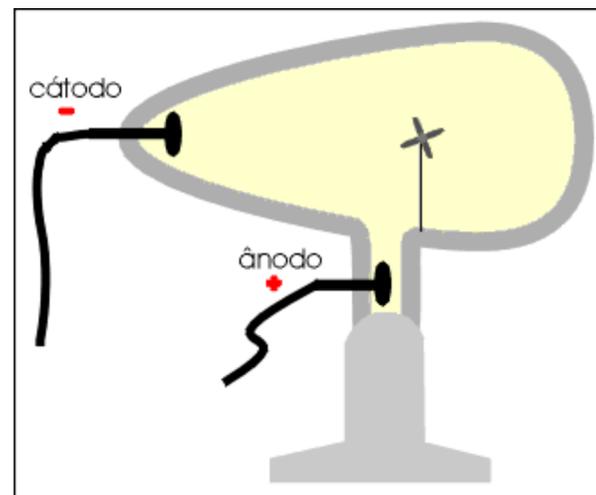
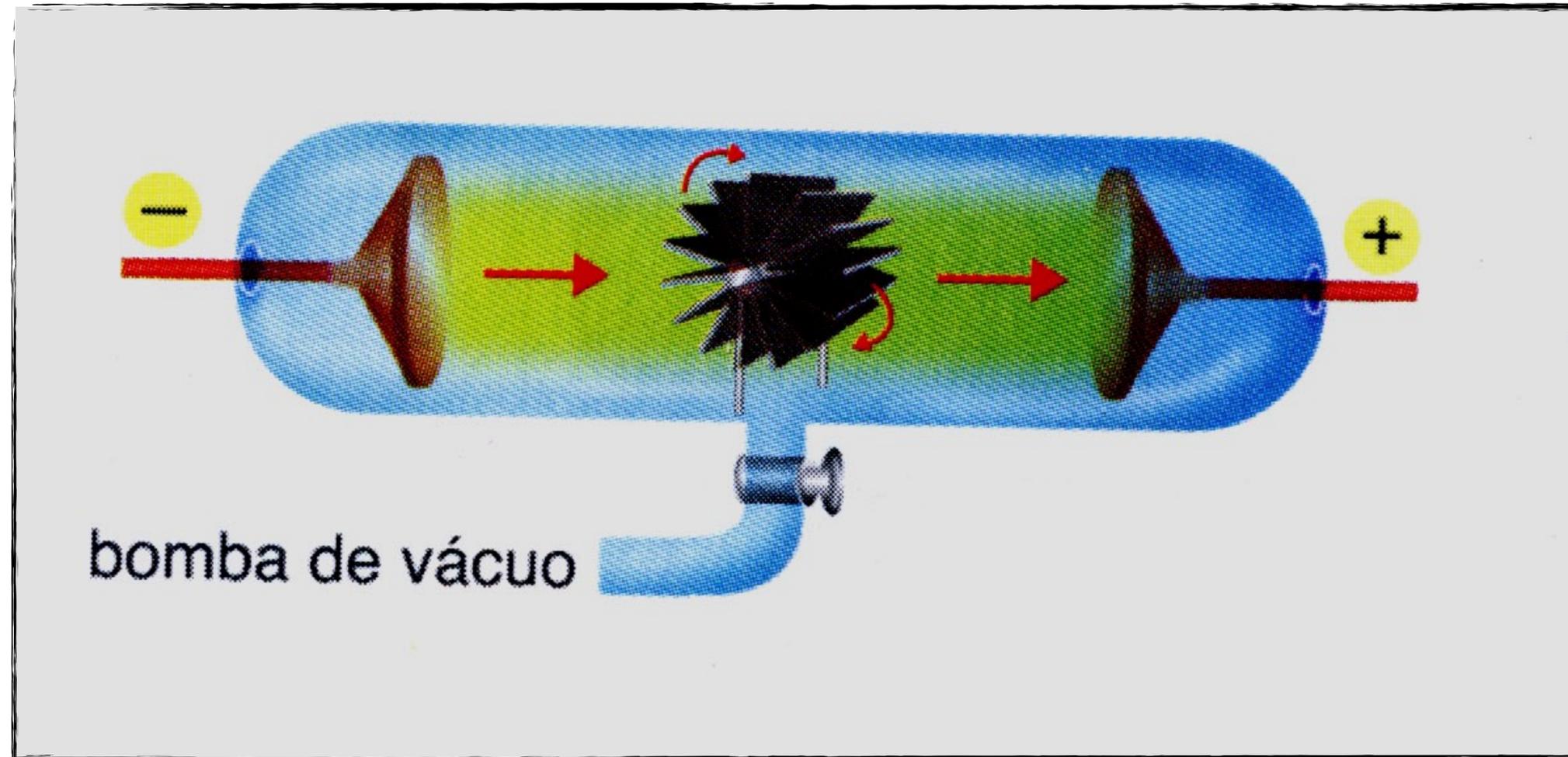
Raios catódicos



“Luminosidade que surge no polo negativo, quando um gás é submetido a altas tensões e baixas pressões.”

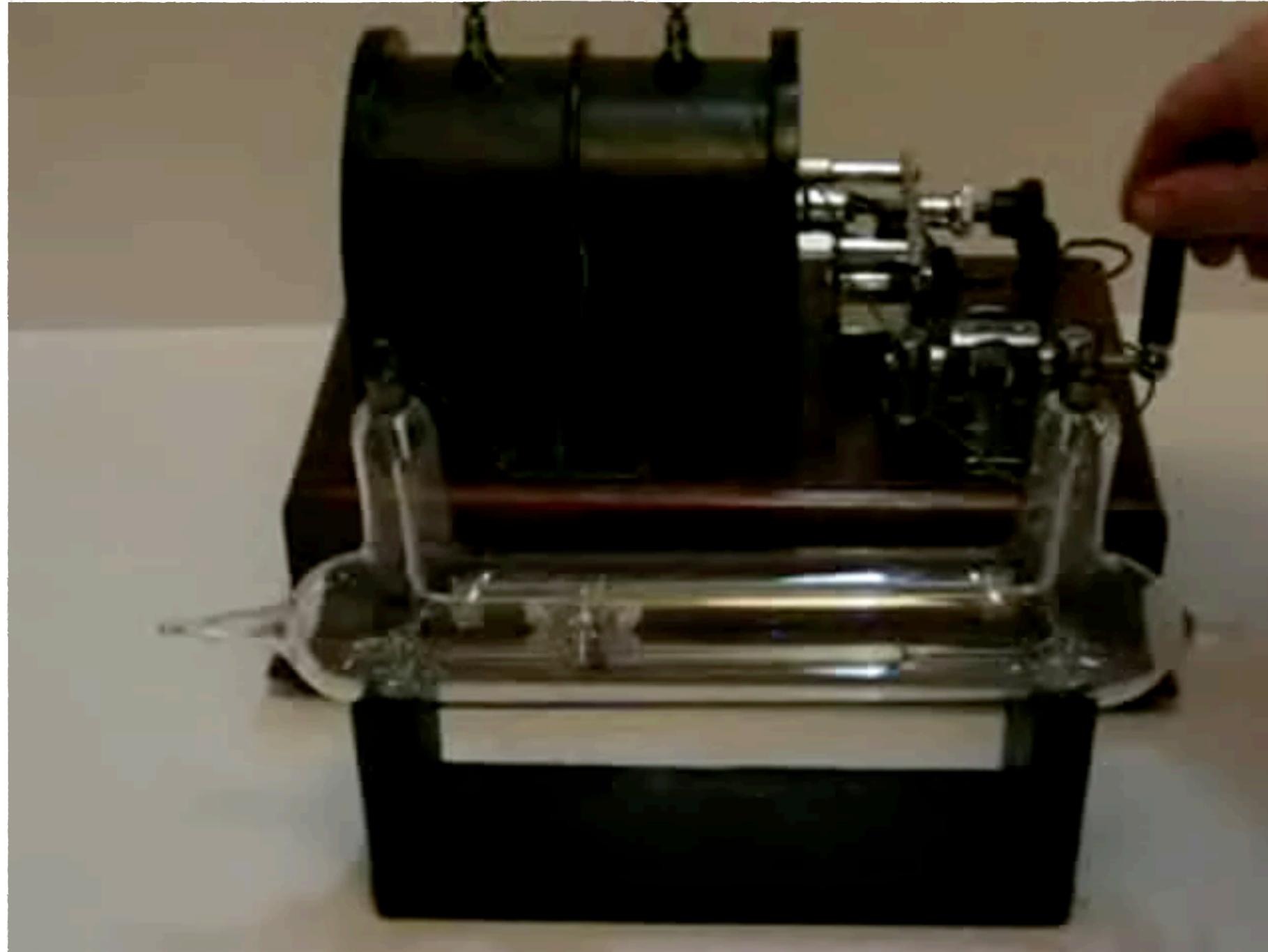


Raios catódicos



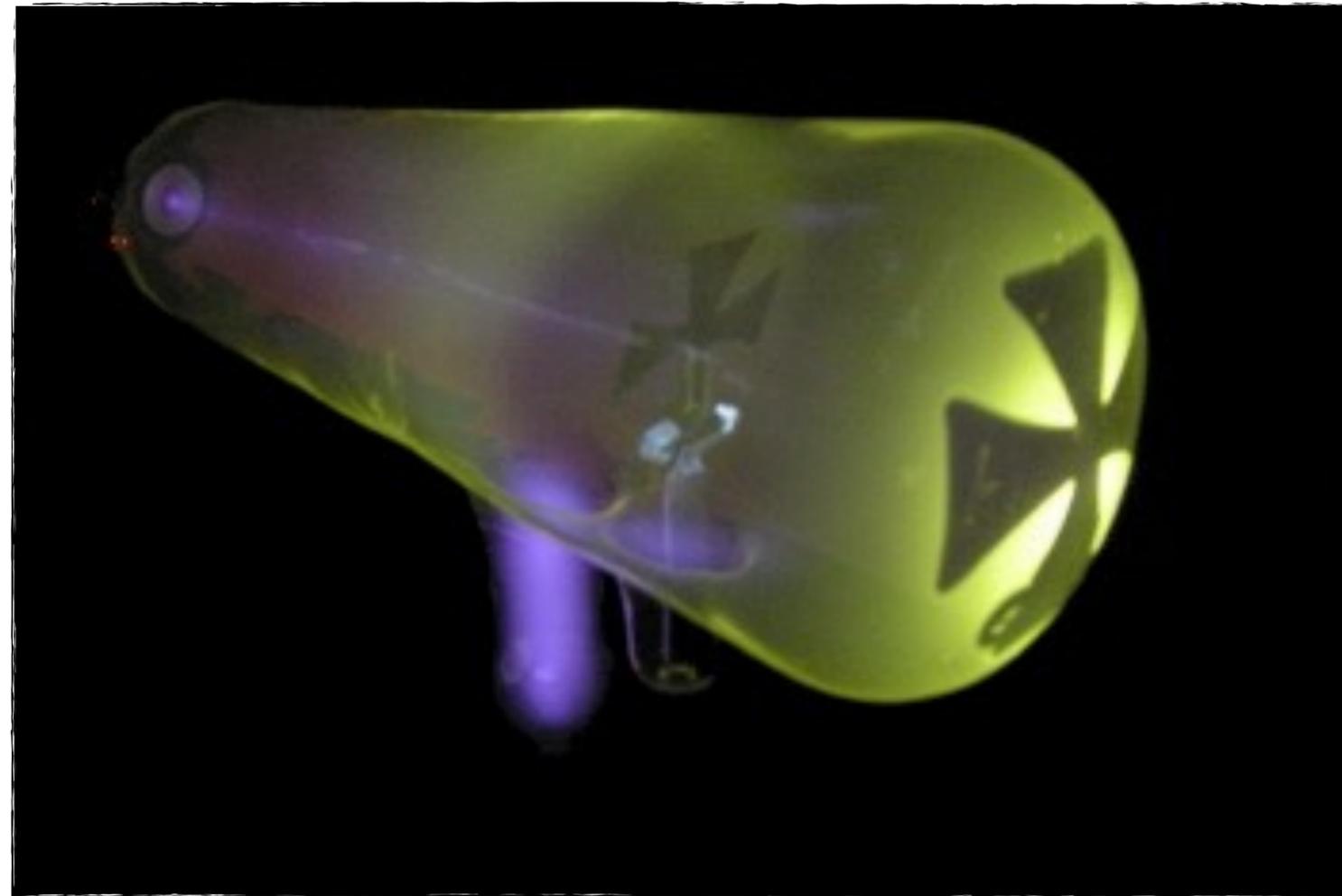
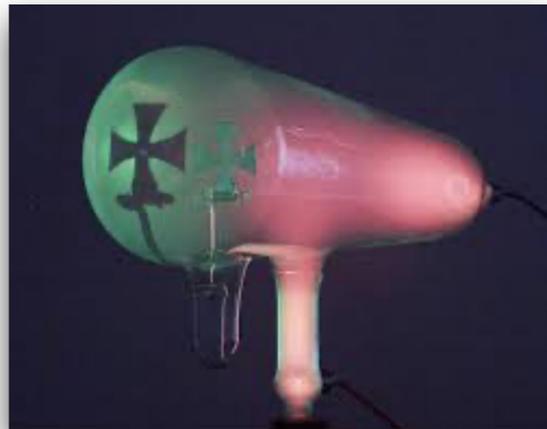
“Prova-se a natureza corpuscular dos raios catódicos.”





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Raios catódicos



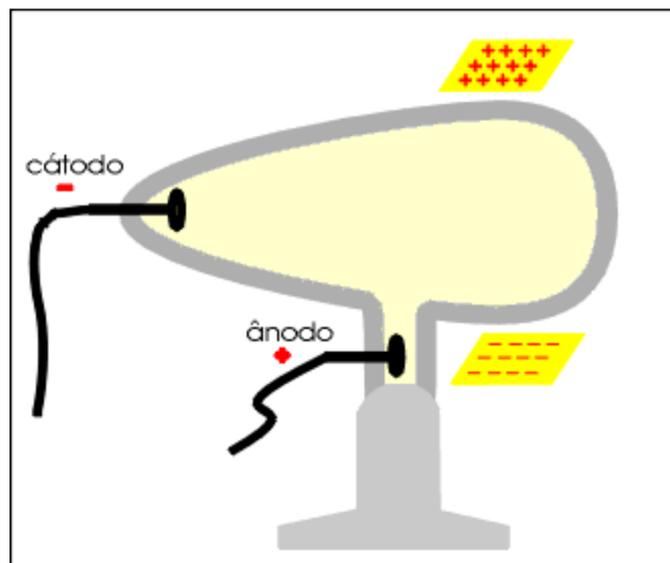
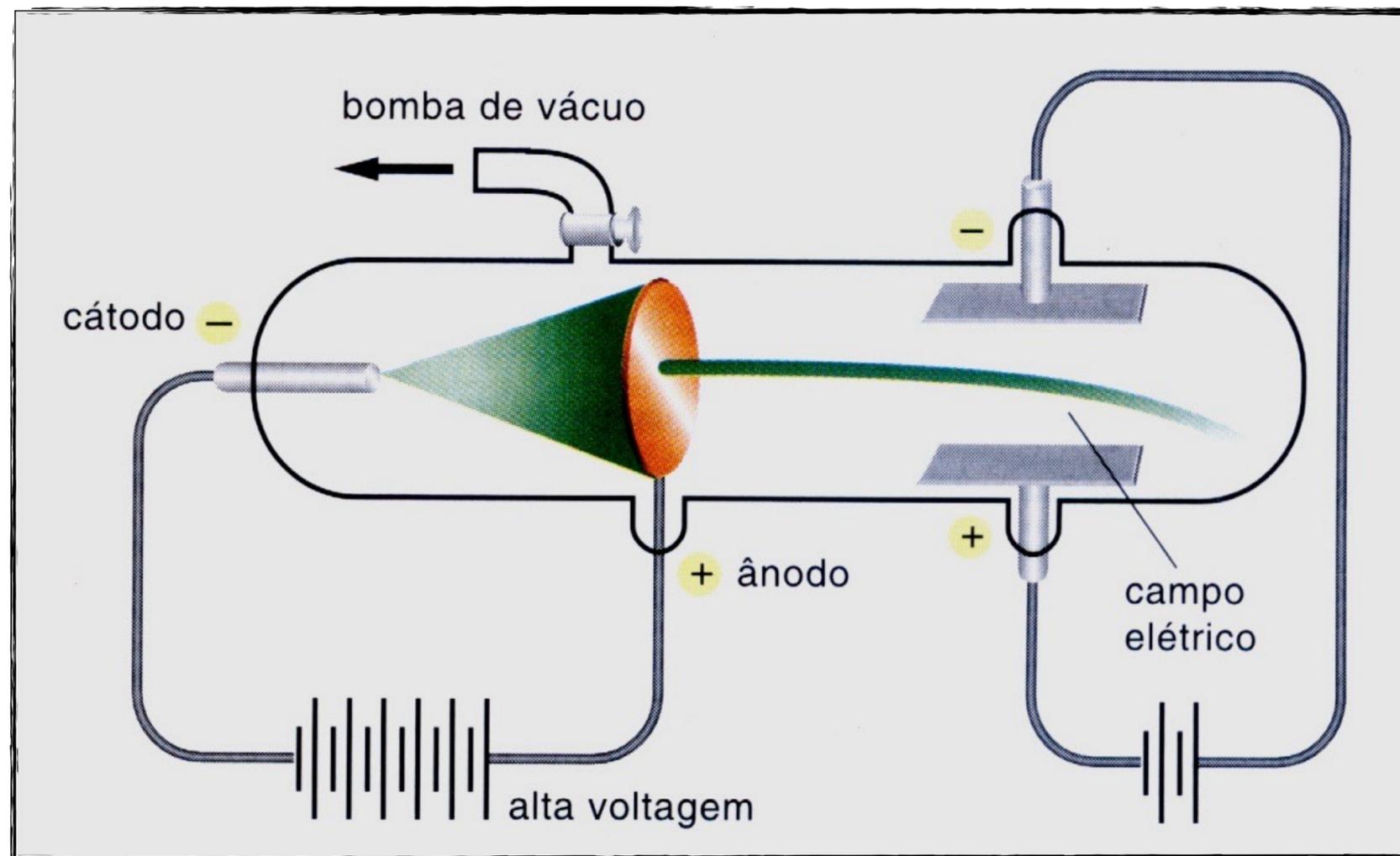
“Prova-se a propagação retilínea dos raios catódicos.”





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Raios catódicos

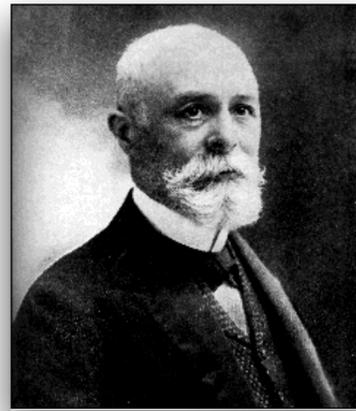


“Prova-se a natureza negativa dos raios catódicos.”



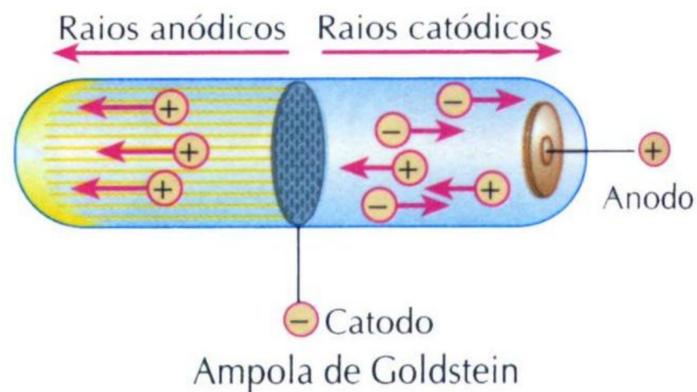
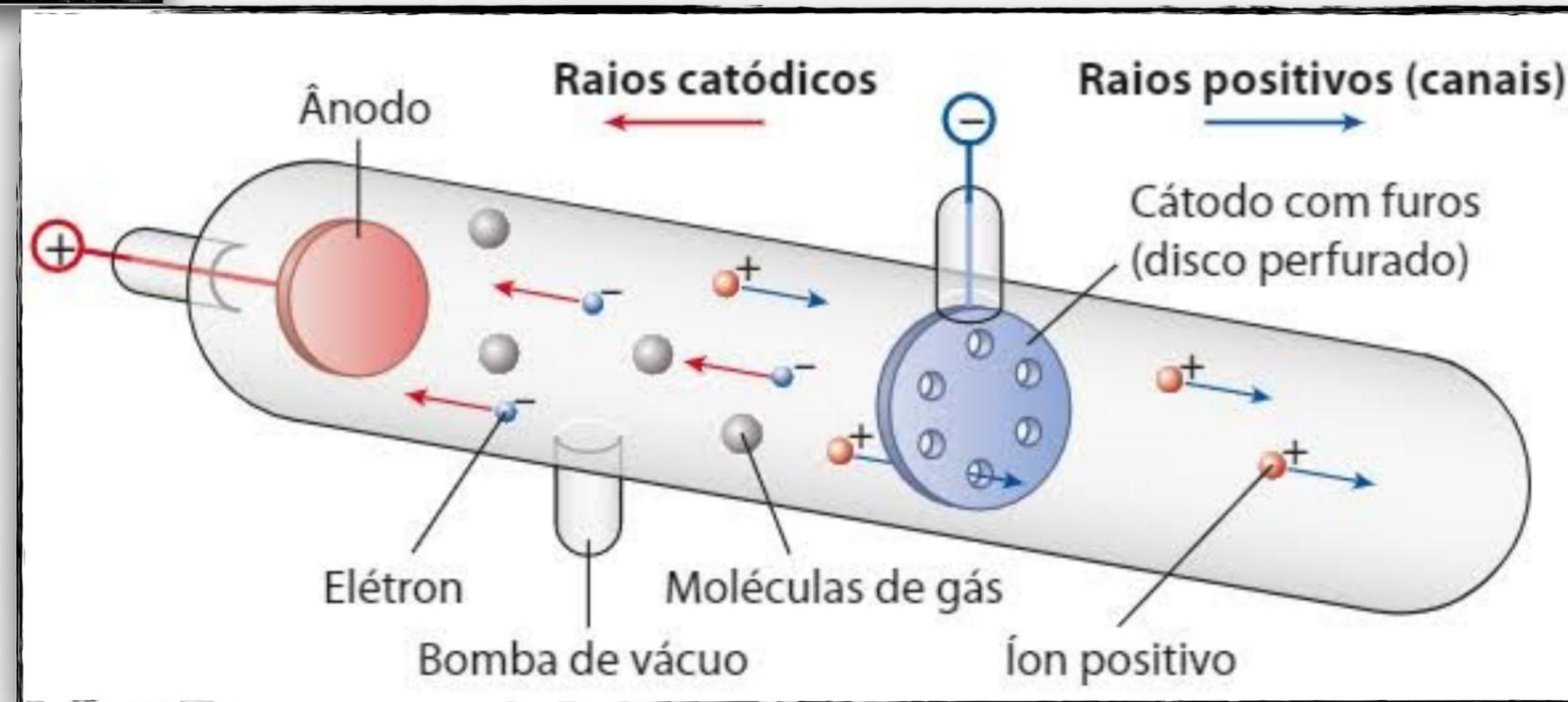
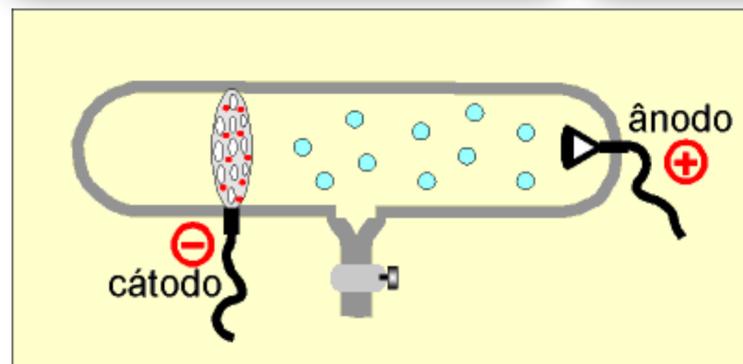


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Raios canvais

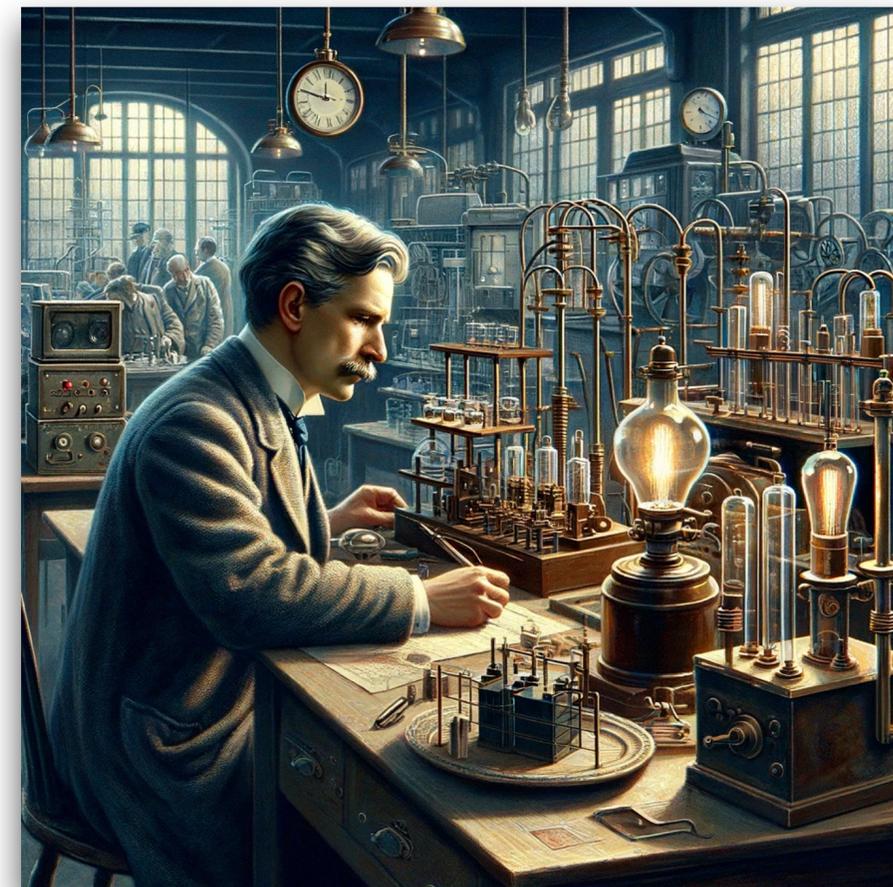
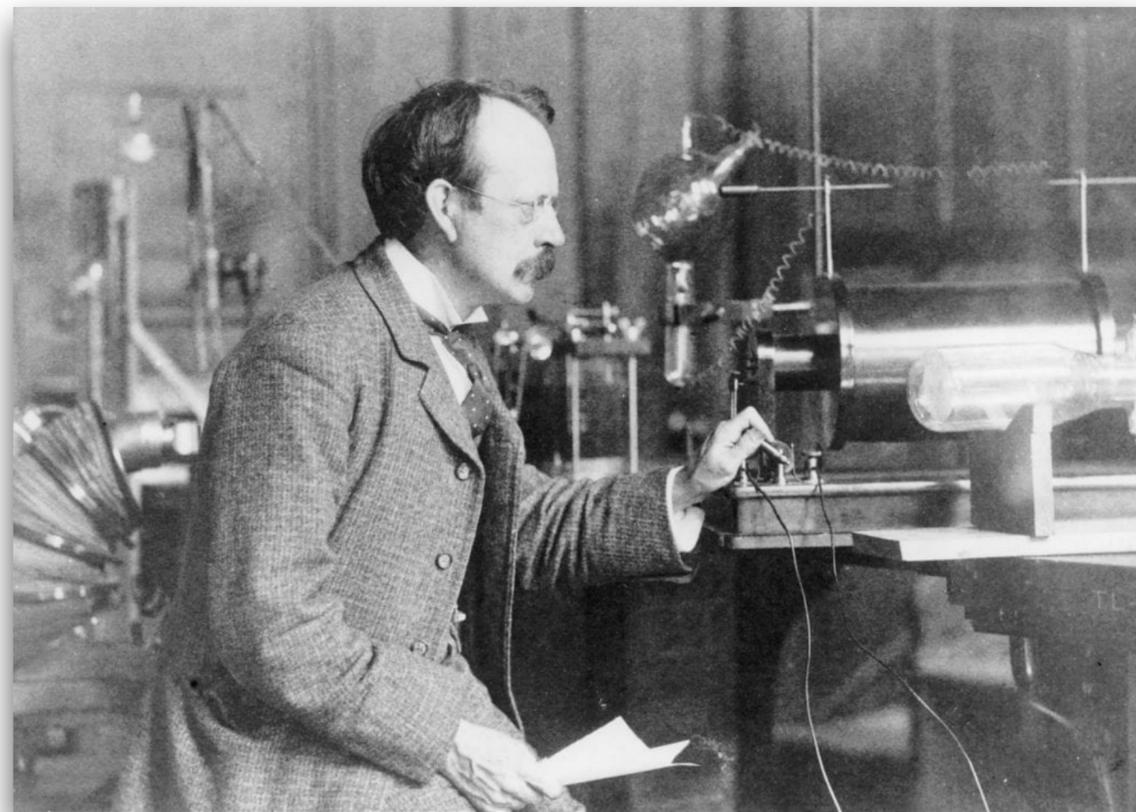
(Eugene Goldstein)



“Raios positivos, mais densos e com natureza dependente do gás presente na ampola”



Descoberta do elétron



$$e/m = 1,7 \cdot 10^{11} \text{ C/kg}$$

- Trabalhando com as ampolas, **Thomson** conseguiu calcular a razão **carga/massa** para os raios catódicos. Esse cálculo é tido como a descoberta da primeira partícula sub-atômica

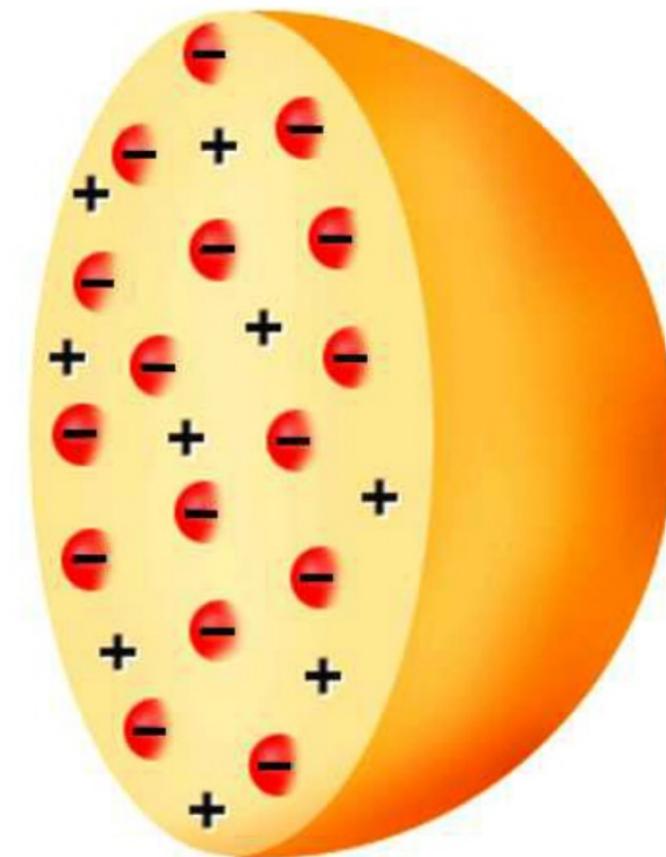
O ELÉTRON.



Modelo de Thomson



O pudim de passas

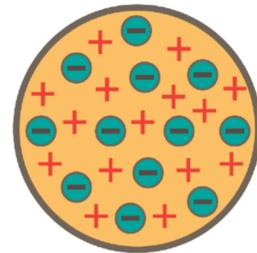


“O átomo é uma esfera positiva, onde estão incrustadas as cargas negativas”





Características e destaques do Modelo de Thomson



- A divisibilidade, a partir da descoberta da primeira partícula sub-atômica.
- O átomo é colocado como uma estrutura homogênea e agora com a presença de cargas.
- Justifica a natureza elétrica da matéria.





Até a próxima!

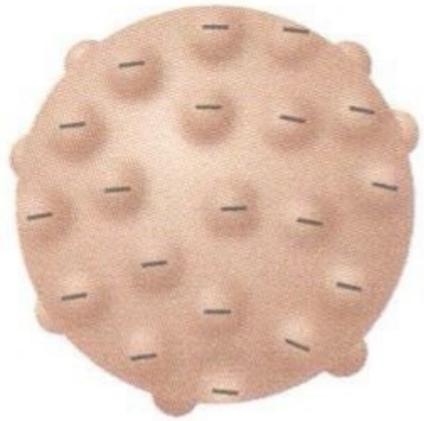
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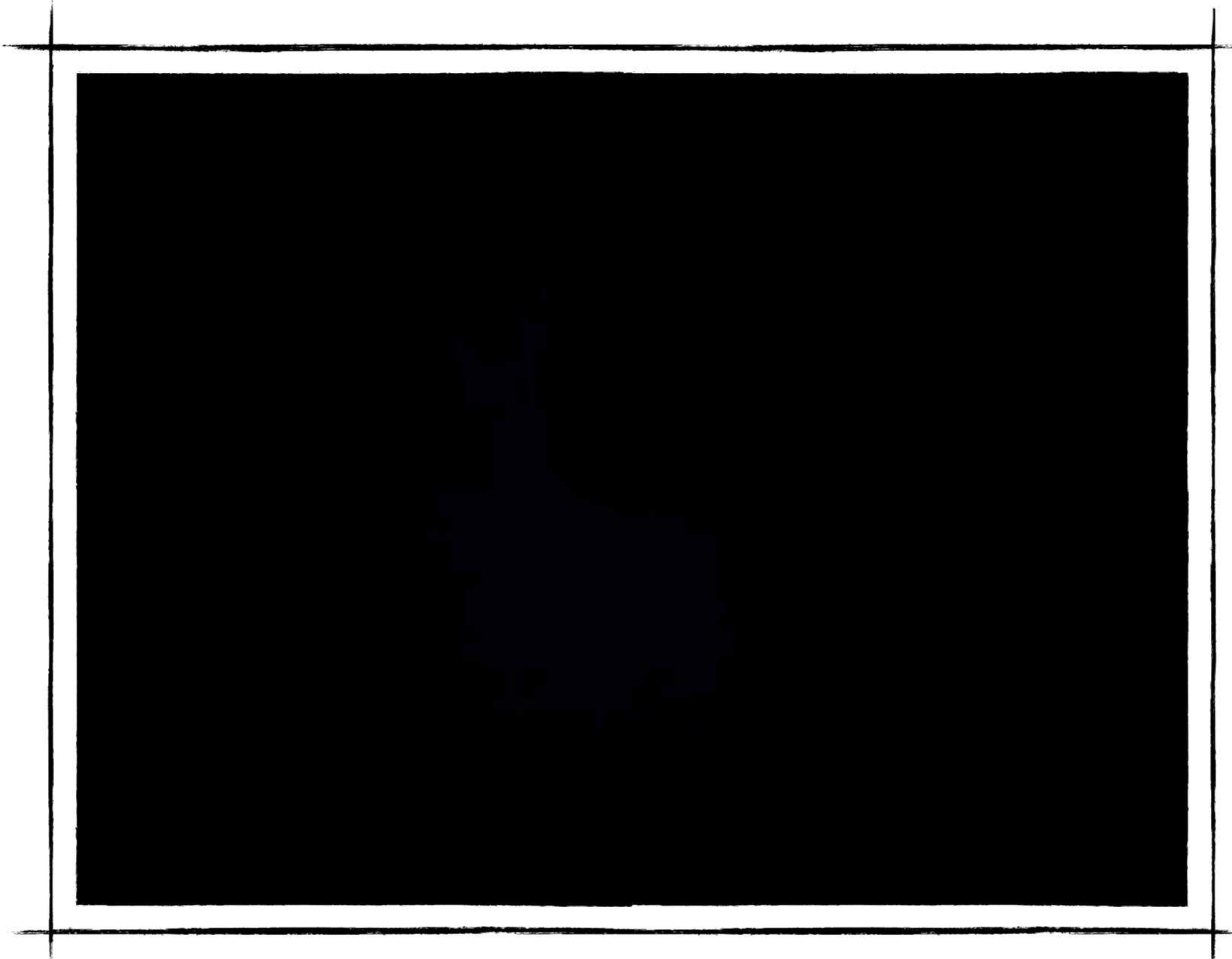
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Vídeo: Modelo de Thomson

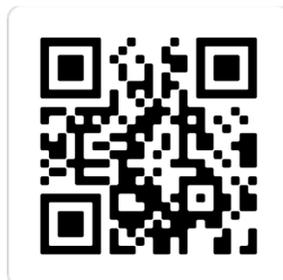


acesse o canal



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Descargas elétricas



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Experiência de Milikan



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Faça uma revisão...



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