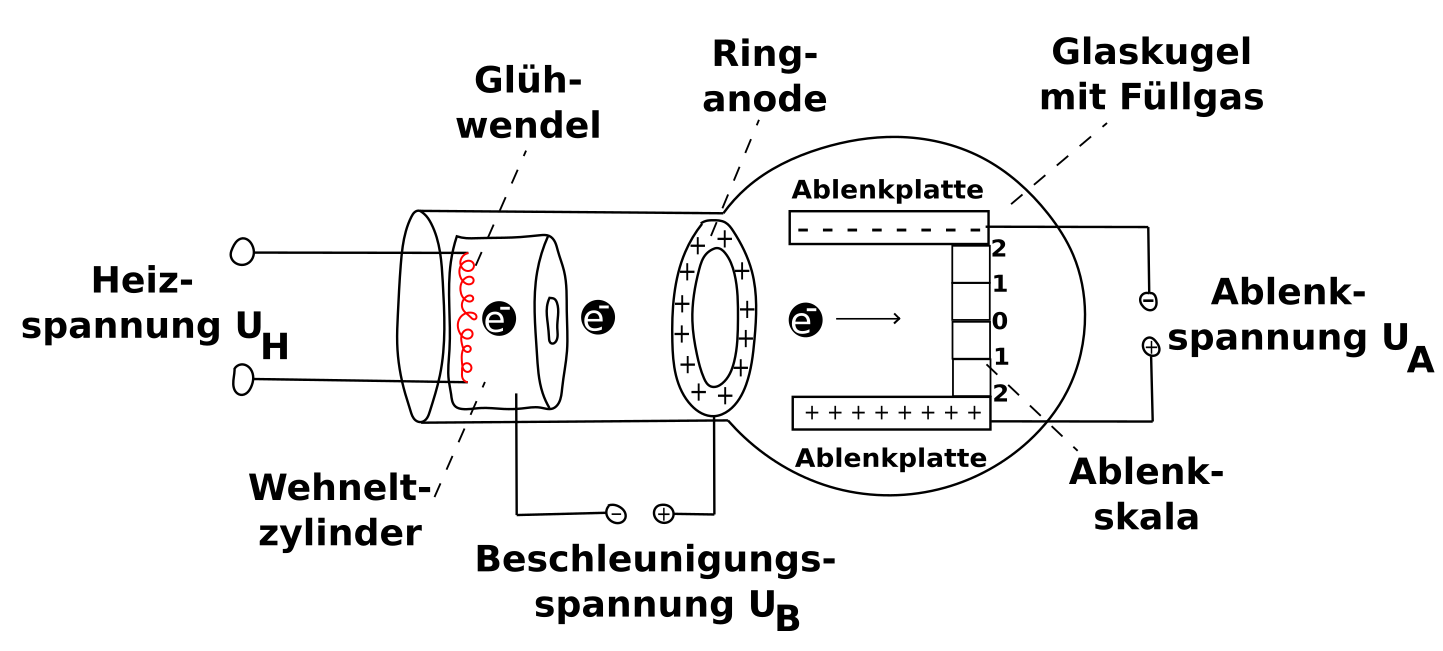
**Elektronenablenkröhre – Abhängigkeit zwischen Ablenkung der Elektronen von der Beschleunigungsspannung**

**Aufbau**



**Durchführung**

**1.** Man stellt die Ablenkspannung UA an den Ablenkplatten konstant auf 1 kV.

**2.** Man schaltet die Heizspannung ein.

**3.** Man verändert anschließende kontinuierlich die Beschleunigungsspannung UB und liest die jeweilige Ablenkung der Elektronen auf der „Ablenkskala“ ab.

**Fragestellung:**

Wie hängt die Ablenkung der Elektronen von der Beschleunigungsspannung UB ab?

**Messwerttabelle**

|  |  |  |  |
| --- | --- | --- | --- |
| **UB [in kV]** | **Ablenkung Y**  **[in cm]** | **1/UB**  **[in 1/kV]** | **1/UB / Y**  **[in 1/kV/cm]** |
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**Auswertung**

Nutzt die Messwerte für zwei Diagramme, die die Abhängigkeit der Ablenkung der Elektronen Y und der Beschleunigungsspannung UB zeigen.

**UB –Y Diagramm**

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**Y – 1/UB – Diagramm**

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**Ergebnis**

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