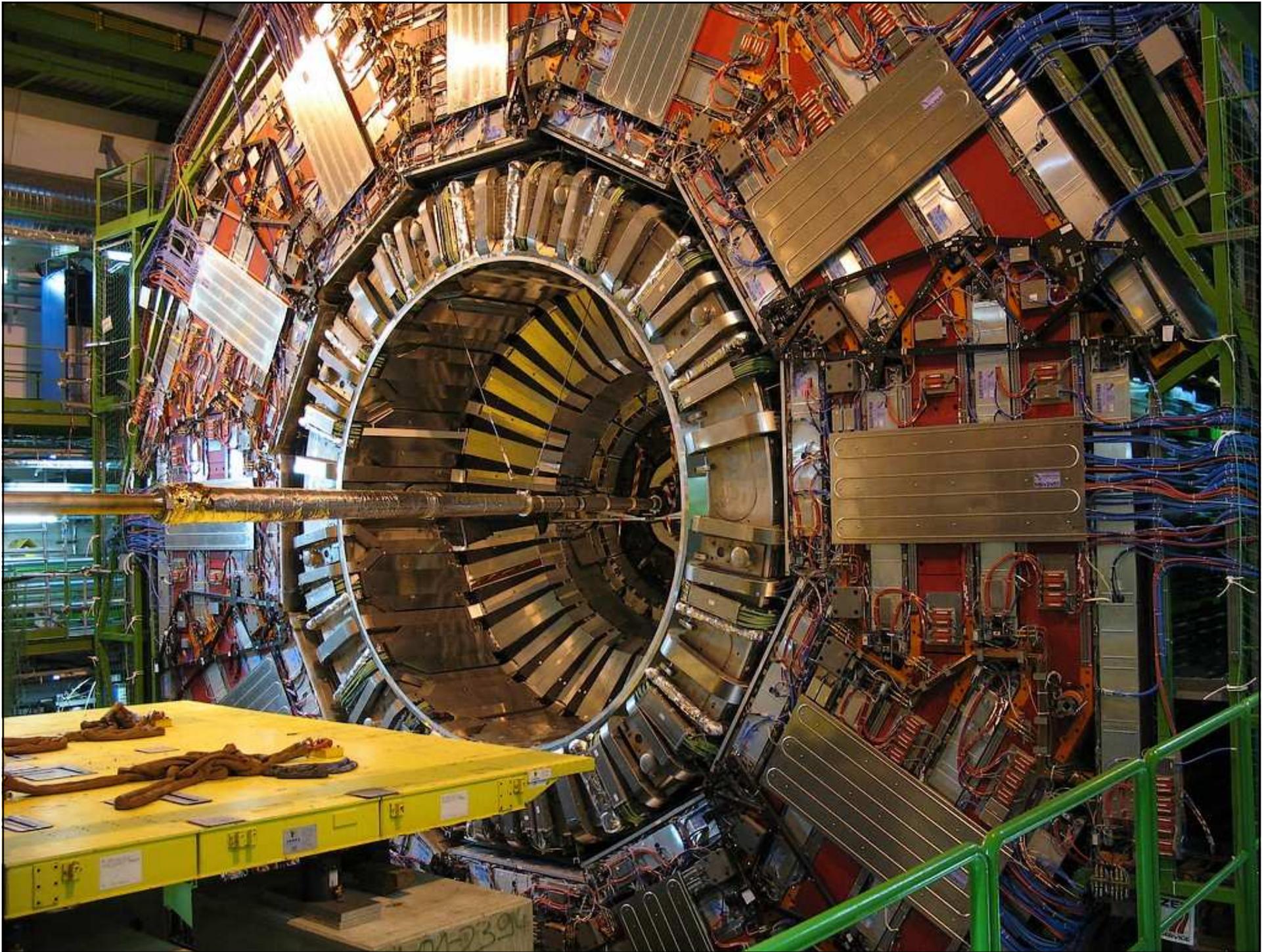


Virtueller Rundgang durch den LHC

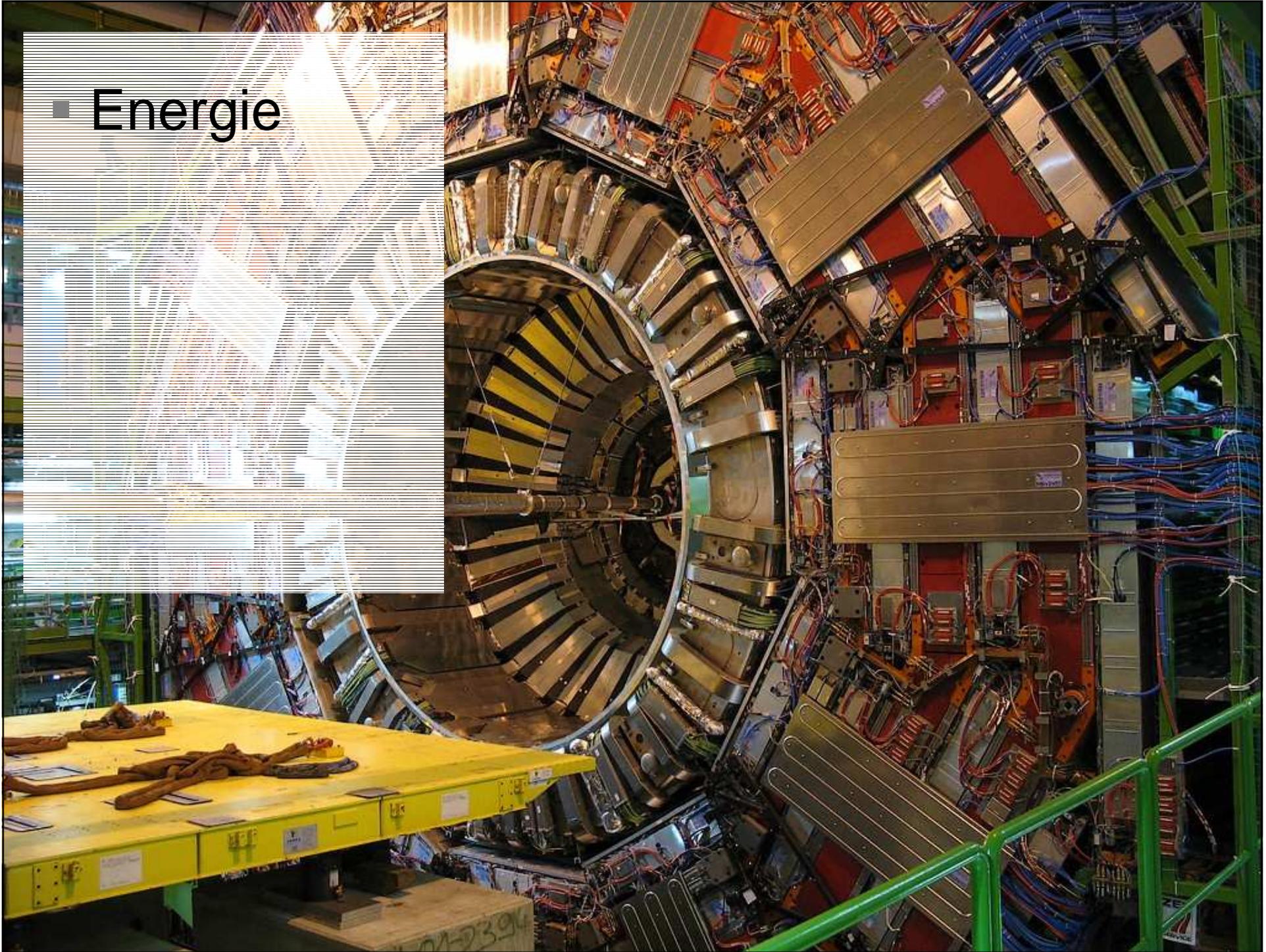
Teil 8: CMS-Detektor

Spurdetektoren

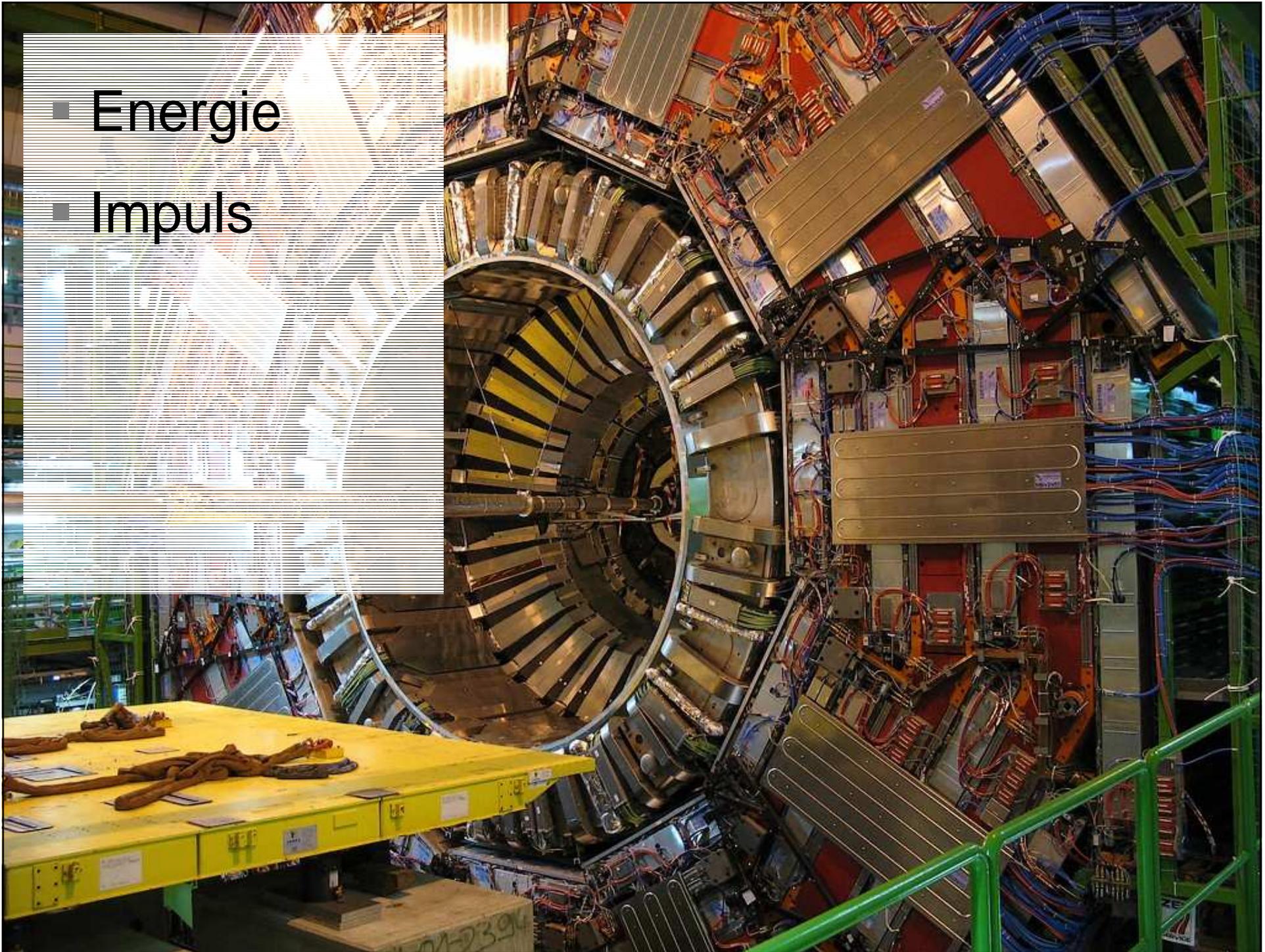




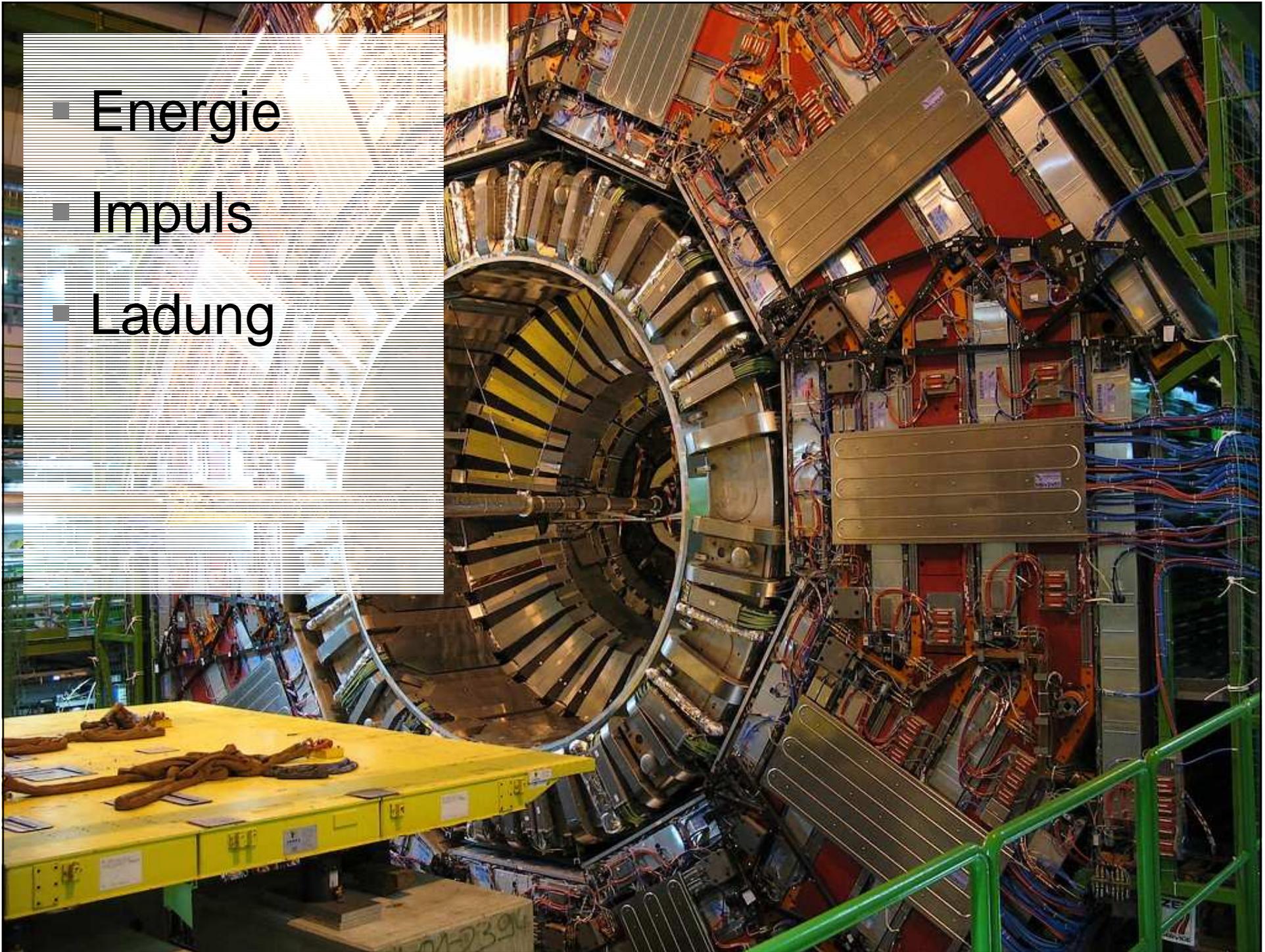
- Energie



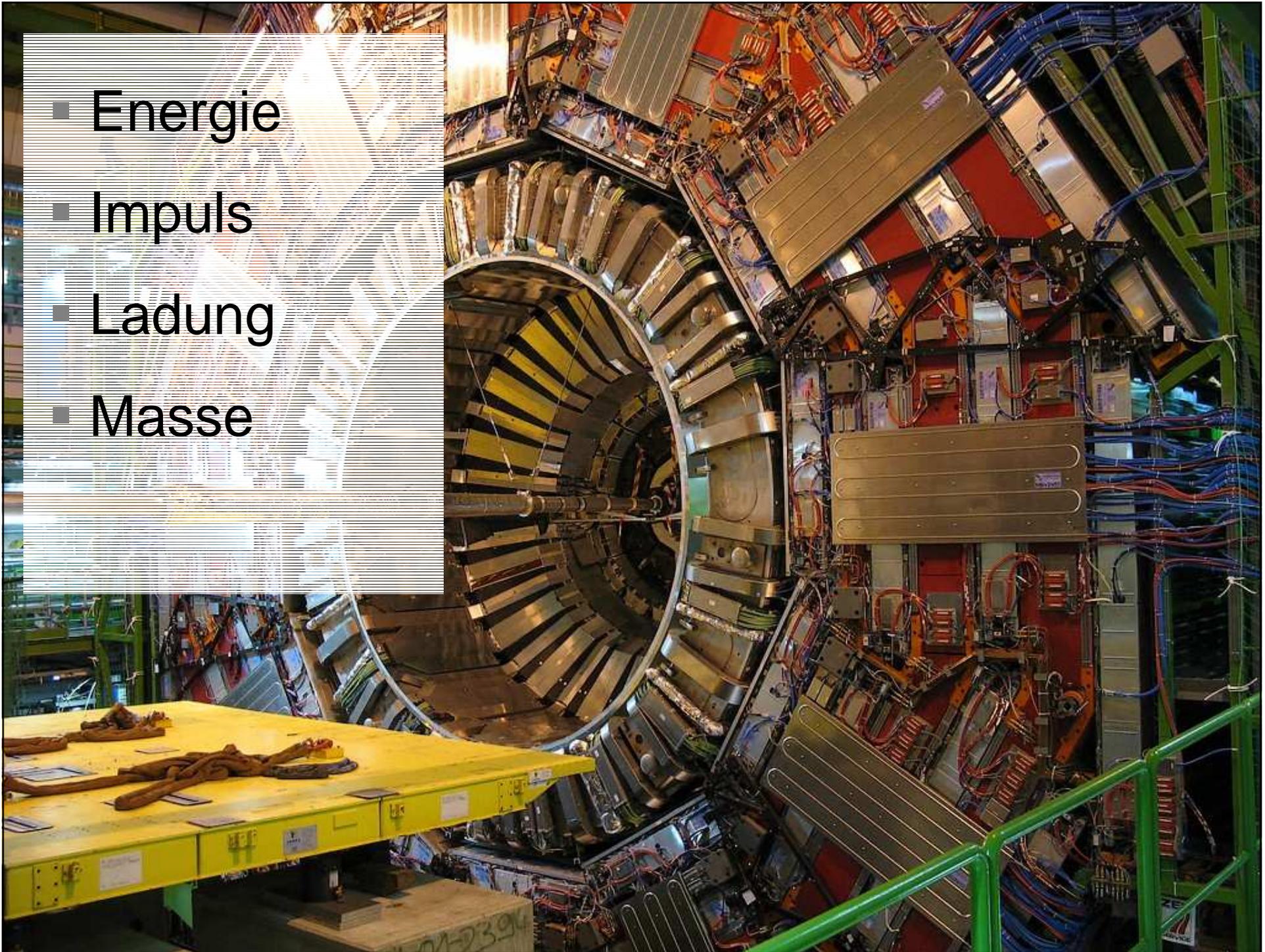
- Energie
- Impuls



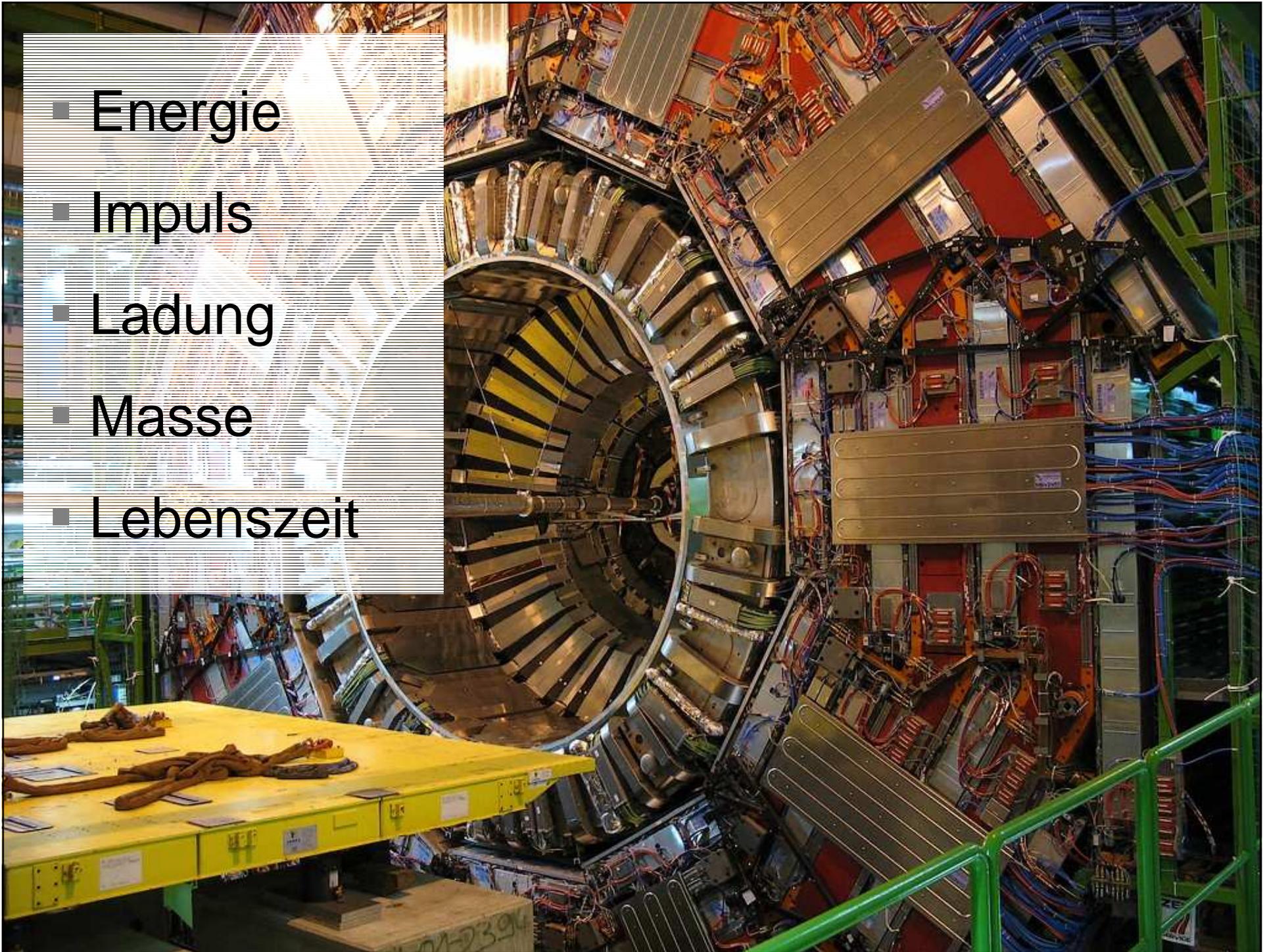
- Energie
- Impuls
- Ladung



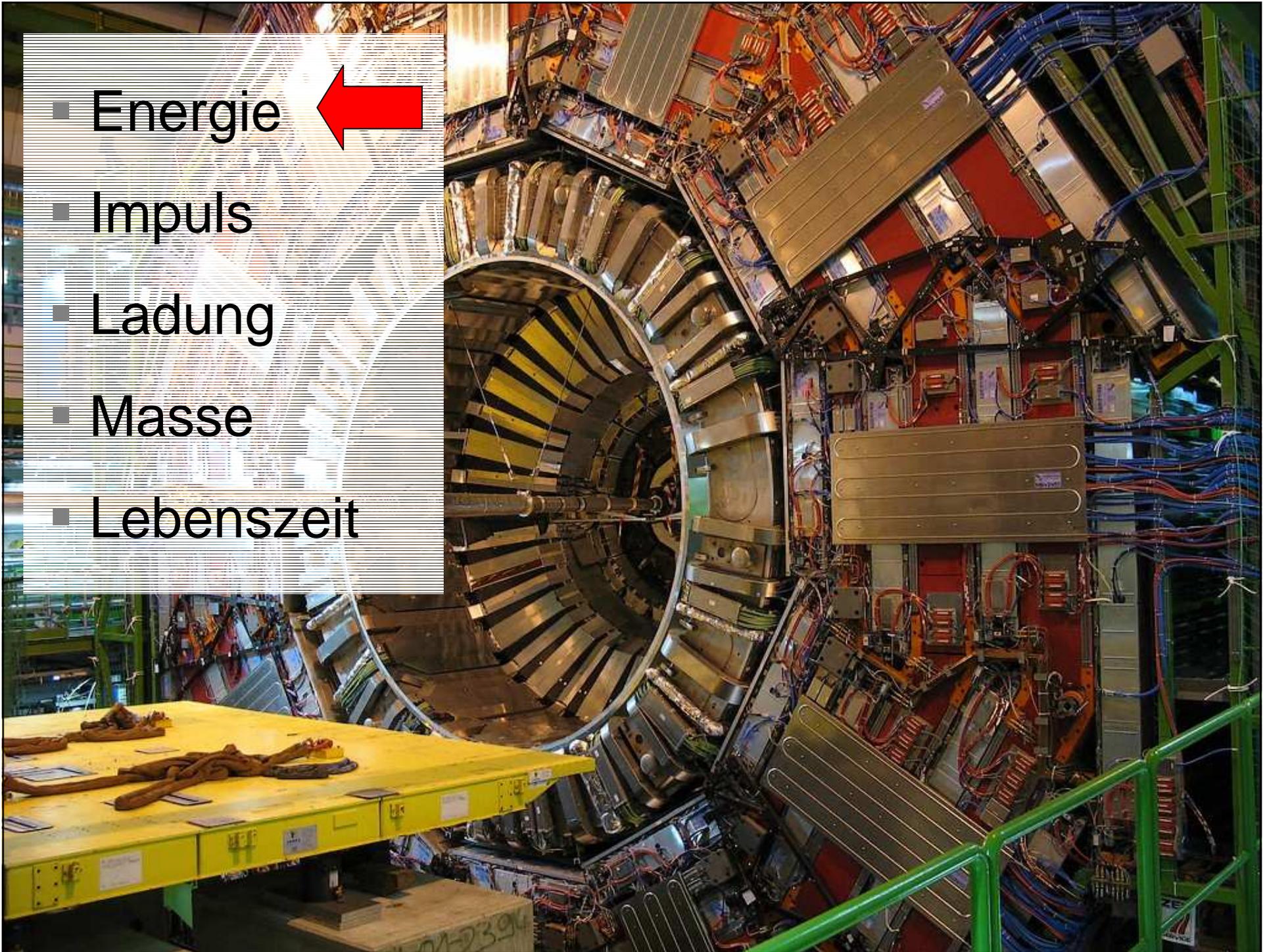
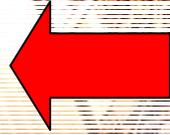
- Energie
- Impuls
- Ladung
- Masse



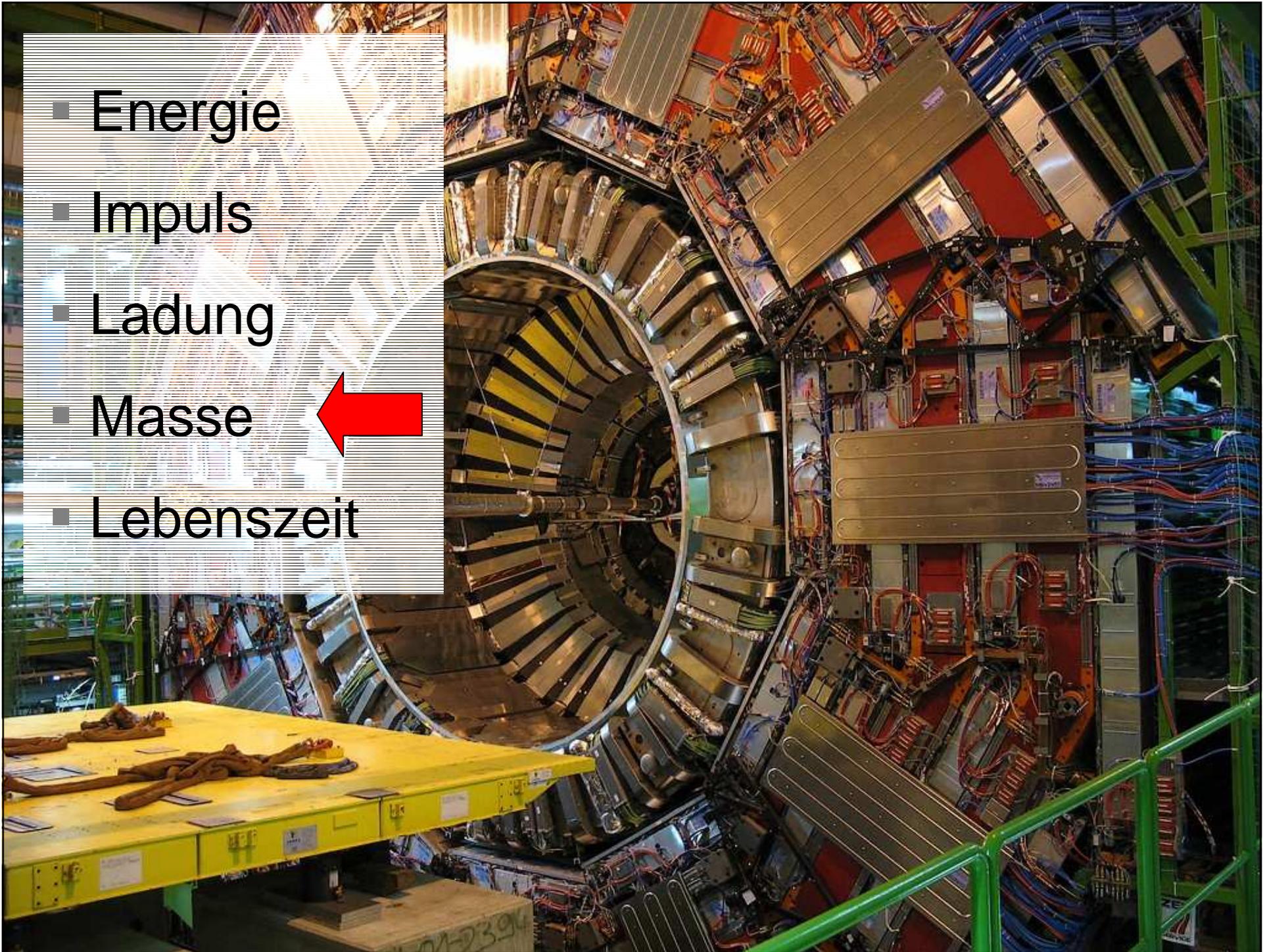
- Energie
- Impuls
- Ladung
- Masse
- Lebenszeit

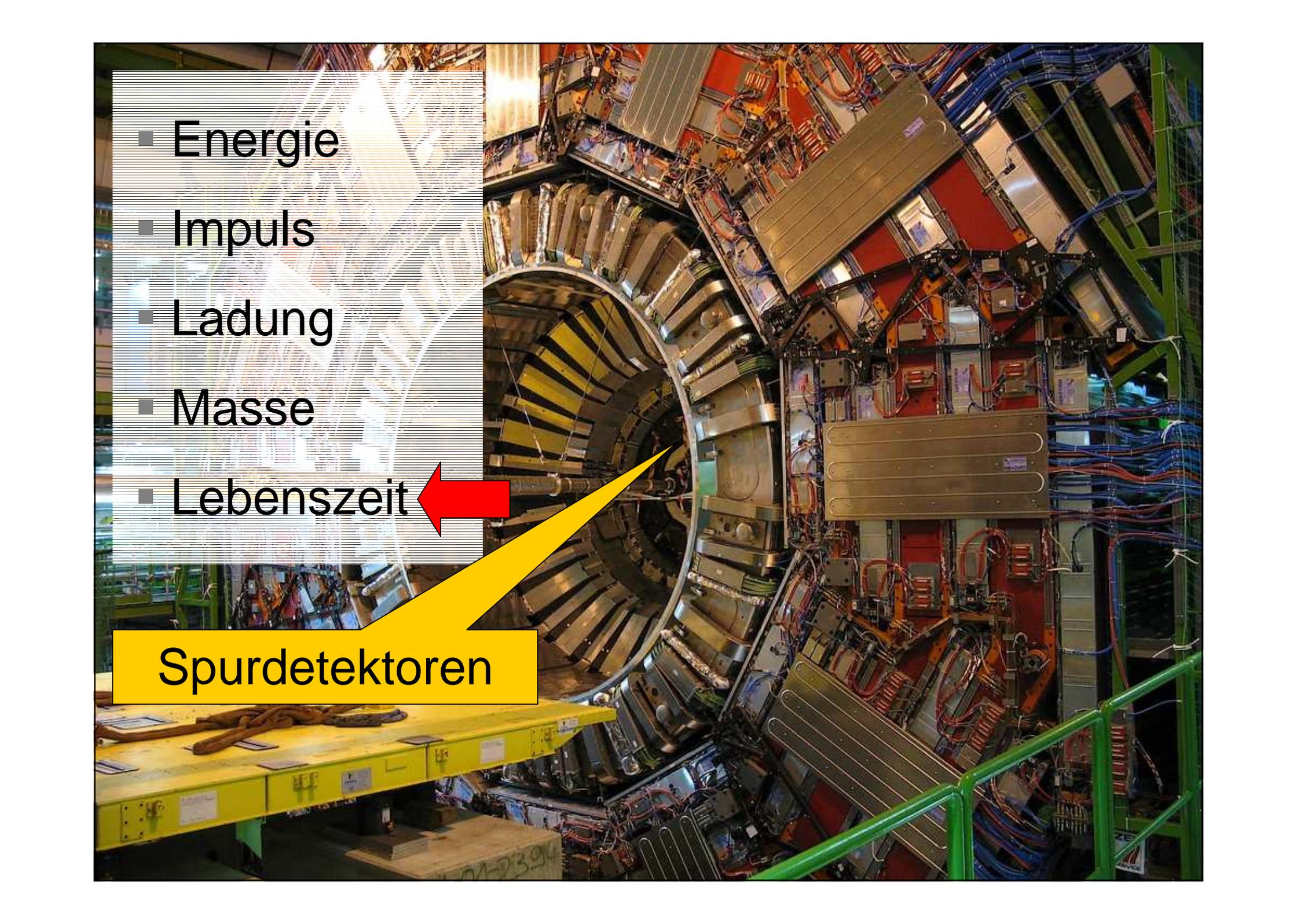


- Energie
- Impuls
- Ladung
- Masse
- Lebenszeit



- Energie
- Impuls
- Ladung
- Masse ←
- Lebenszeit





- Energie

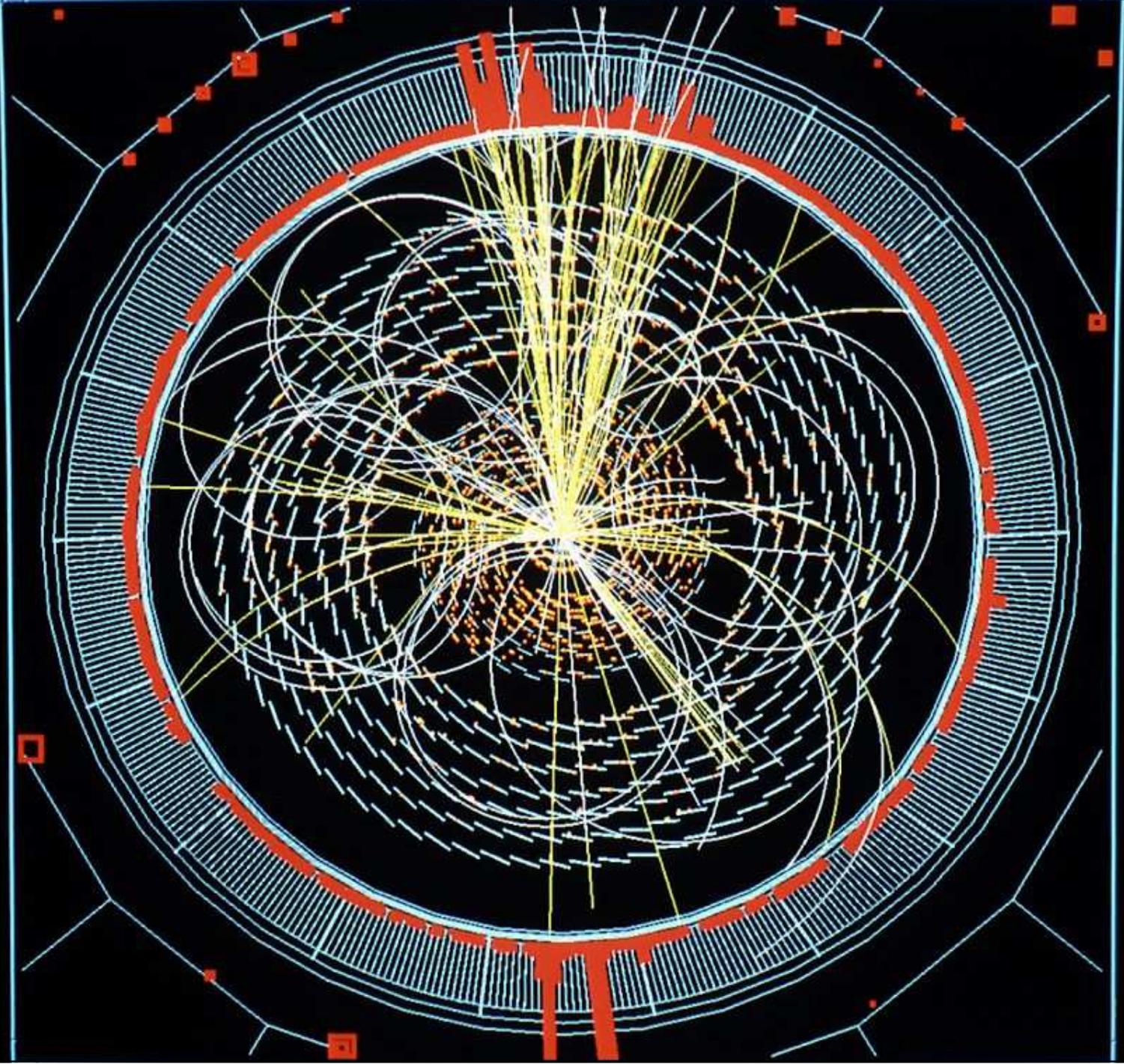
- Impuls

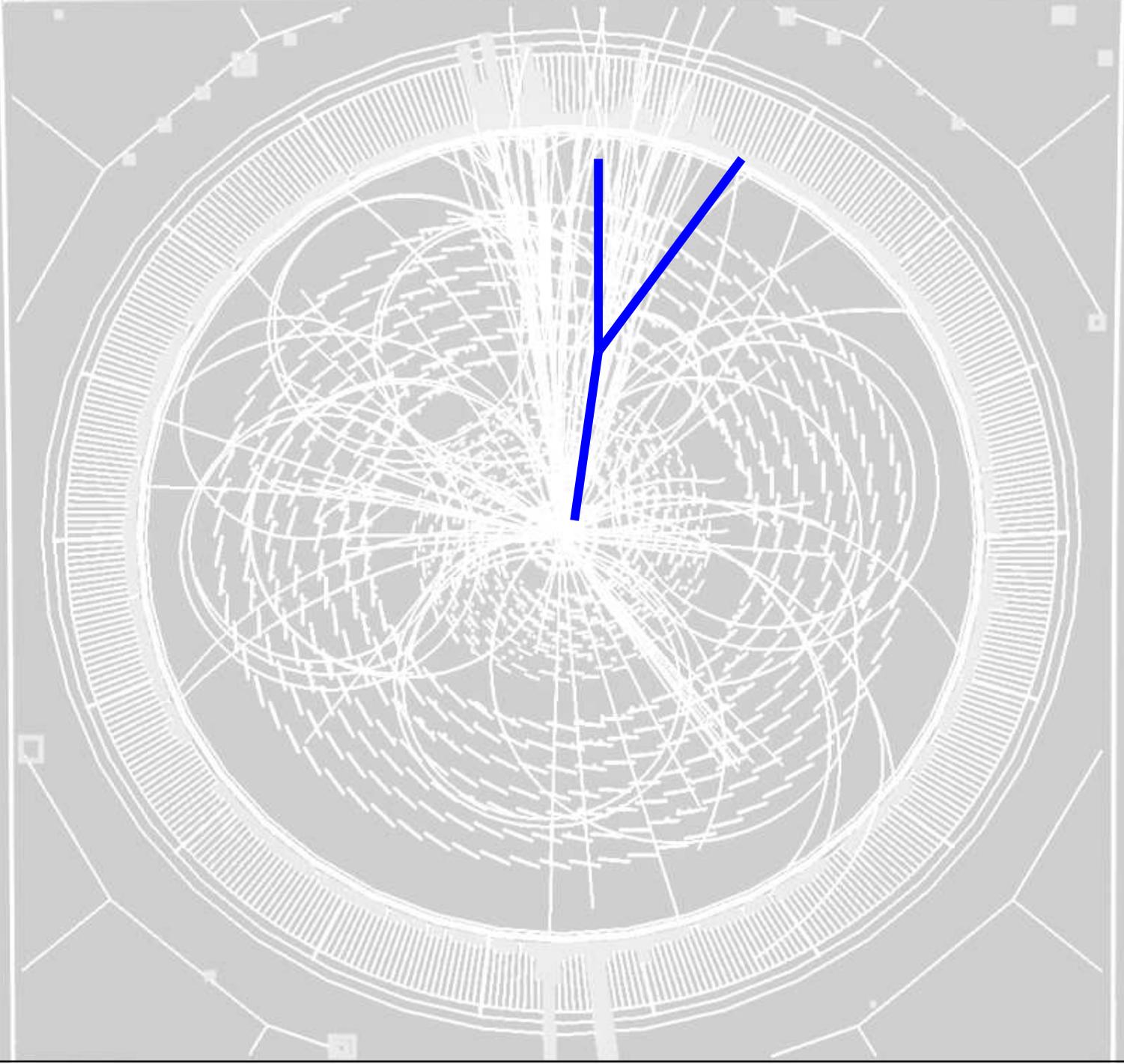
- Ladung

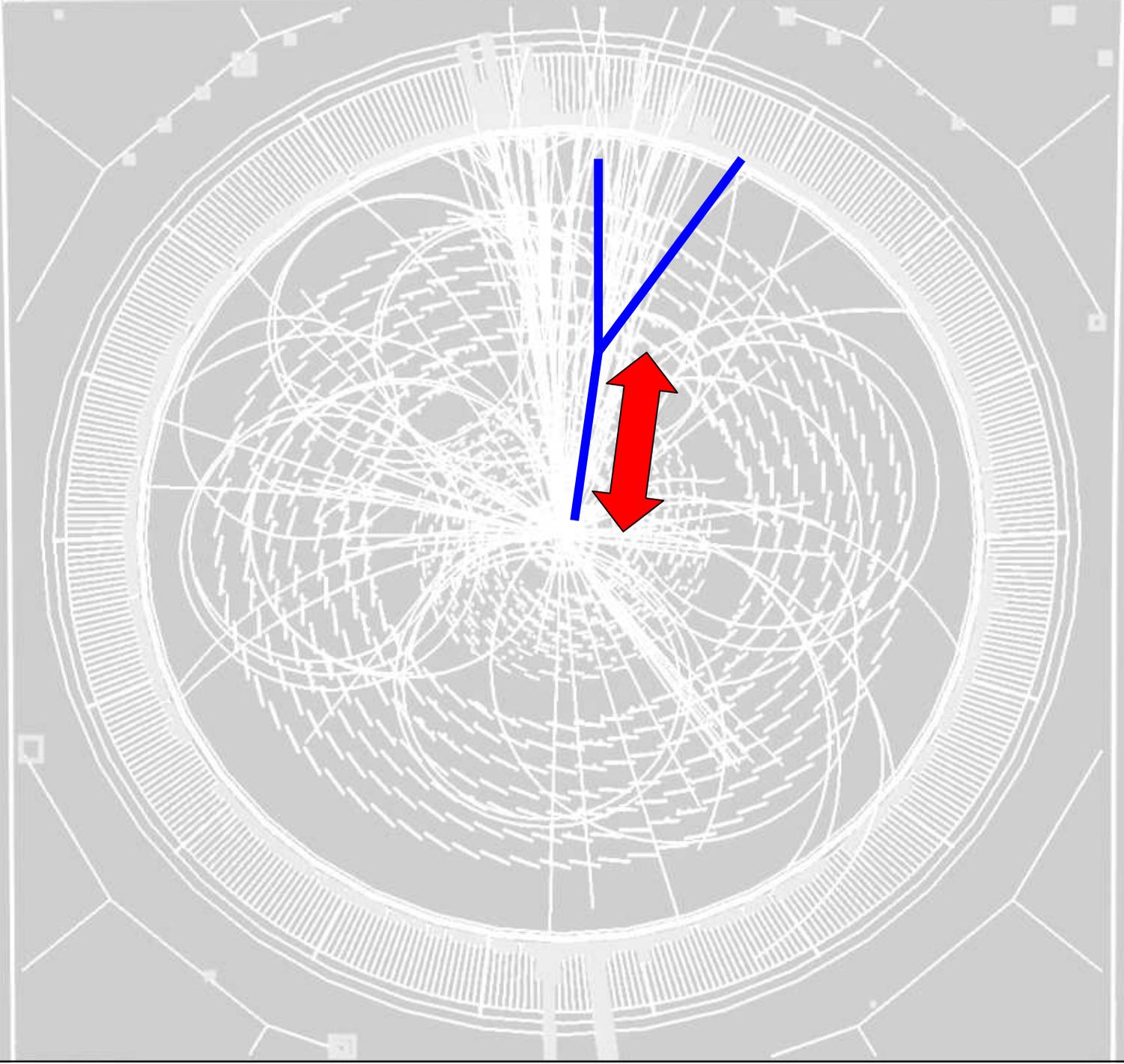
- Masse

- Lebenszeit

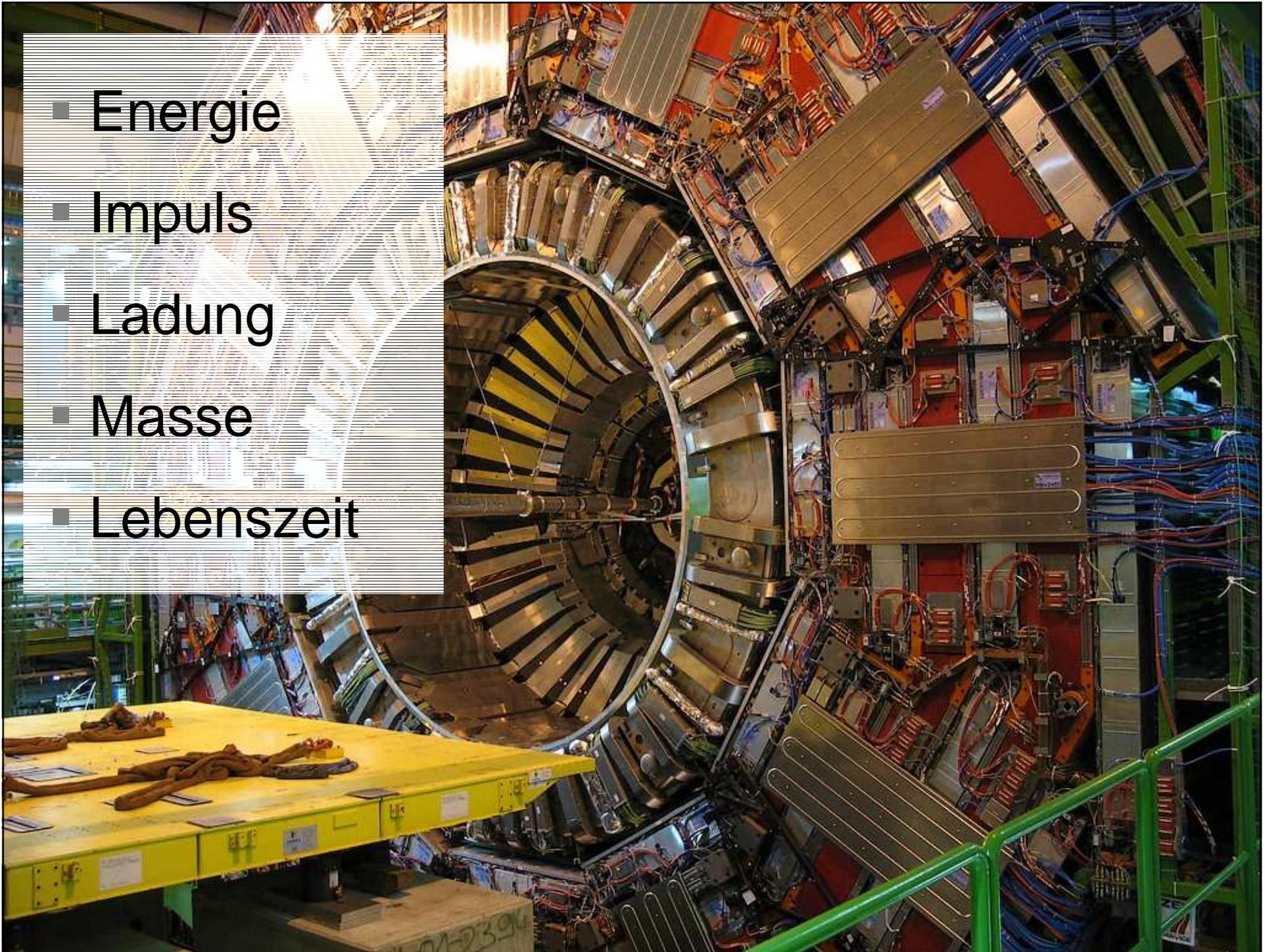
Spurdetektoren







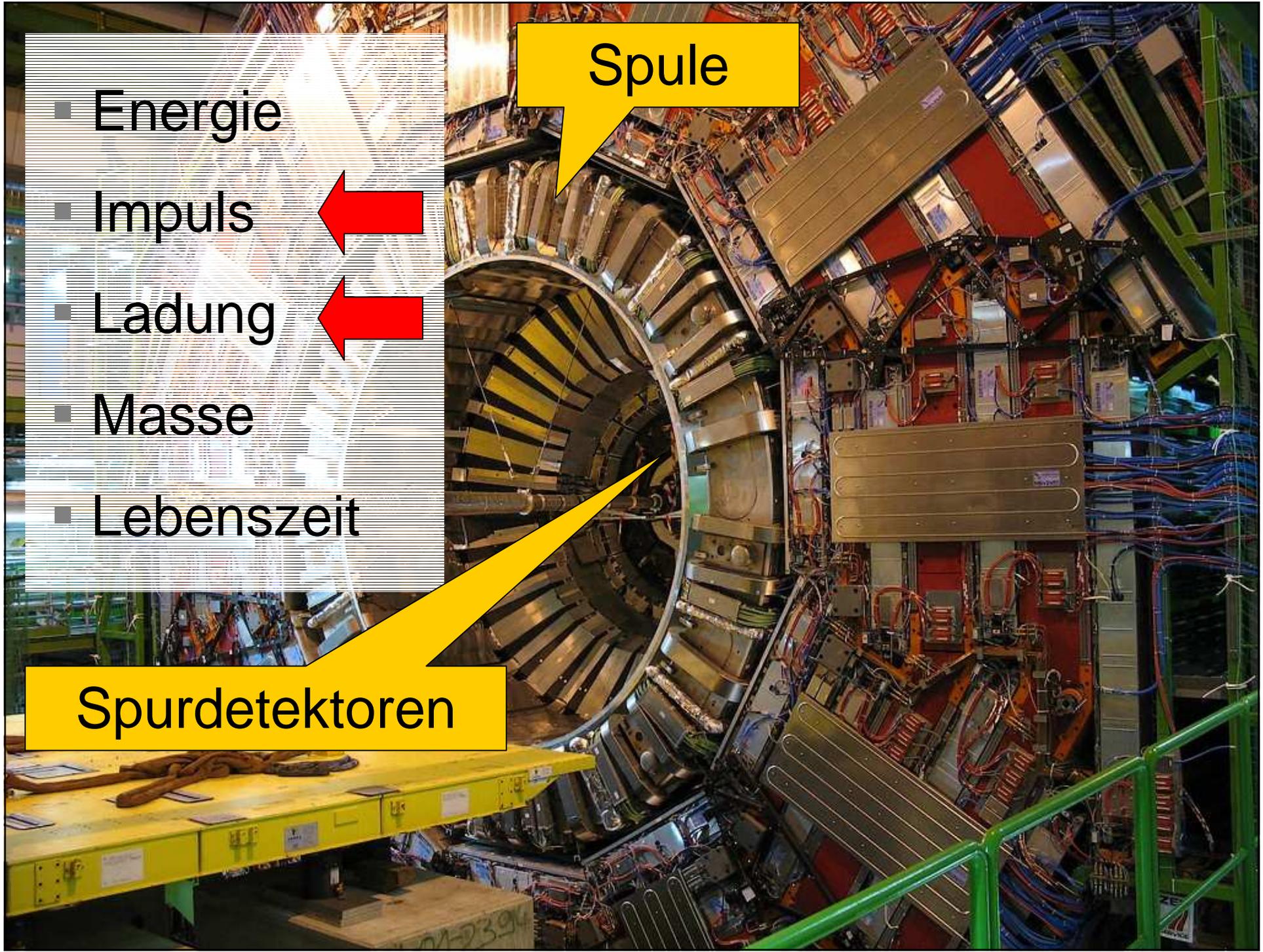
- Energie
- Impuls
- Ladung
- Masse
- Lebenszeit



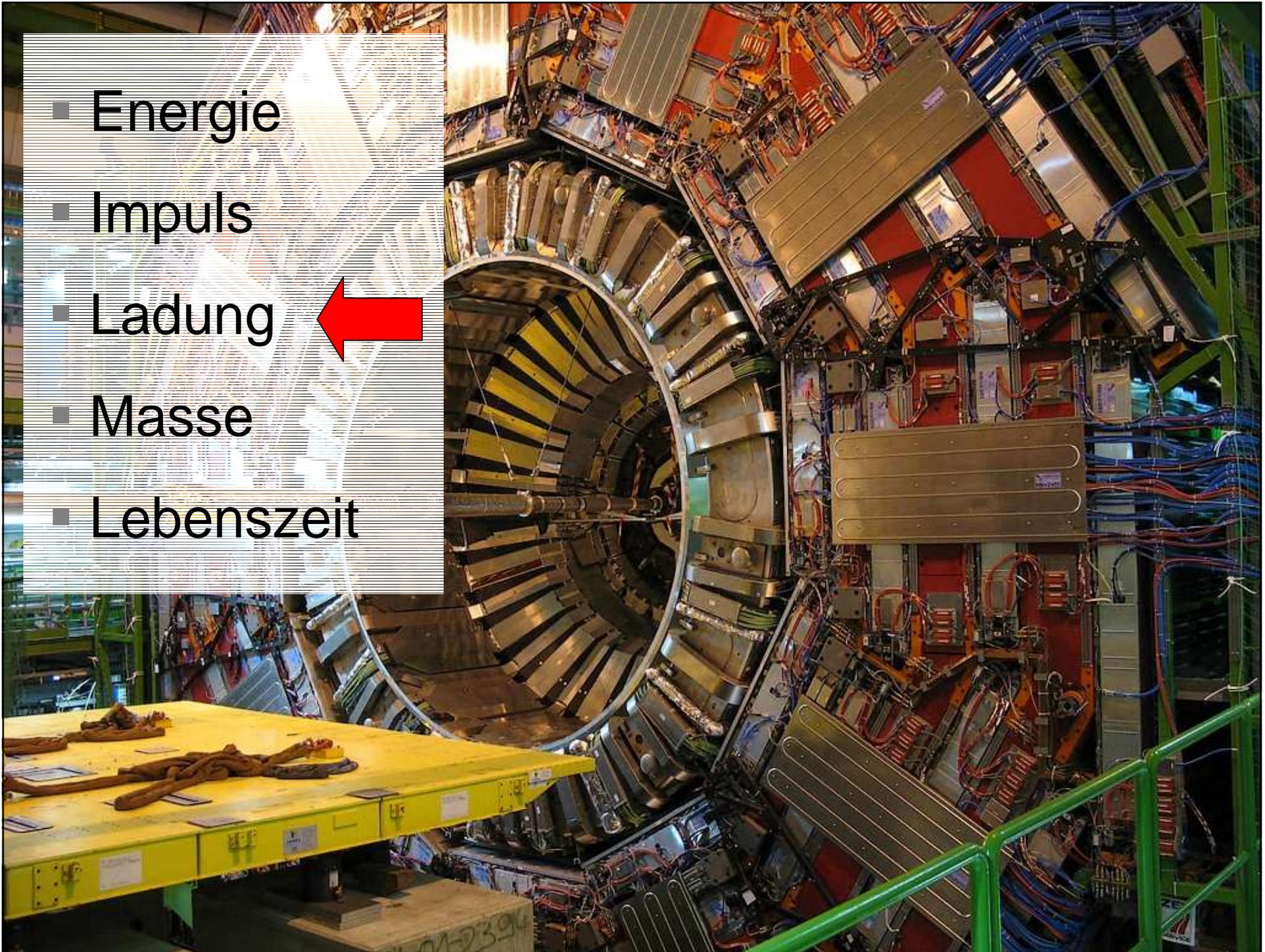
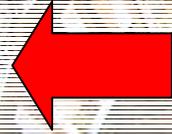
- Energie
- Impuls ←
- Ladung ←
- Masse
- Lebenszeit

Spule

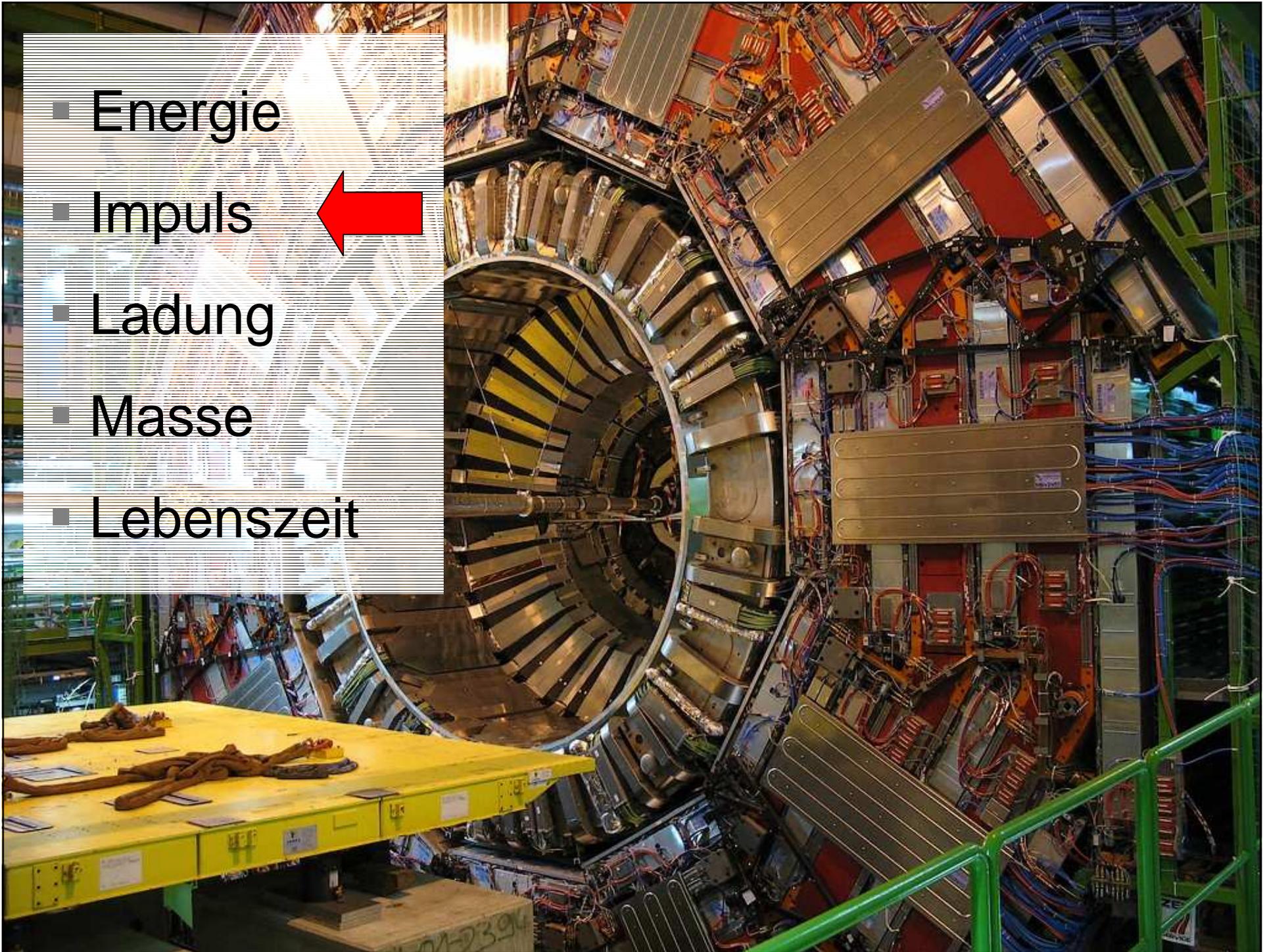
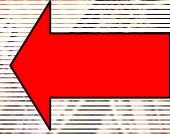
Spurdetektoren

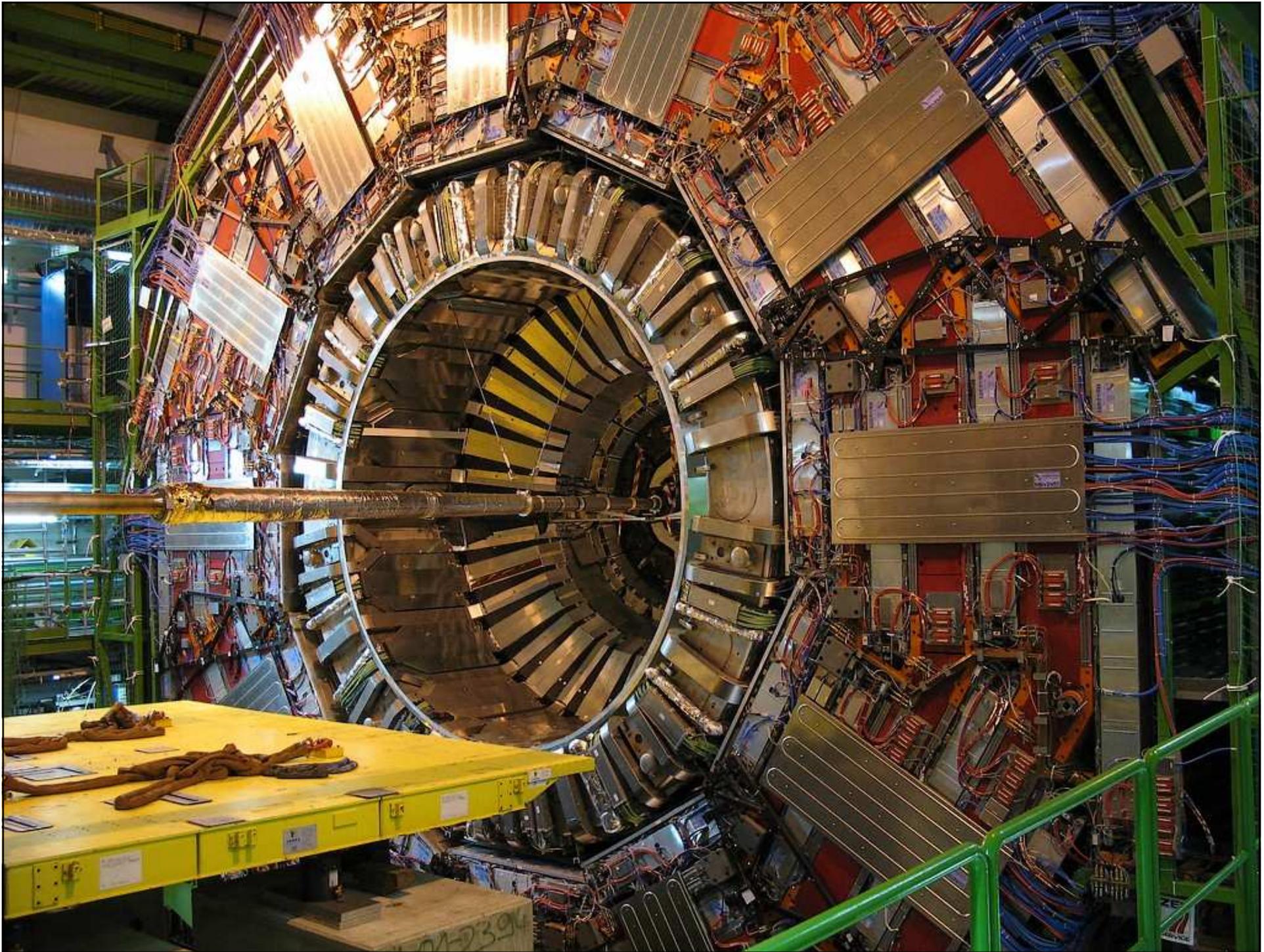


- Energie
- Impuls
- Ladung
- Masse
- Lebenszeit

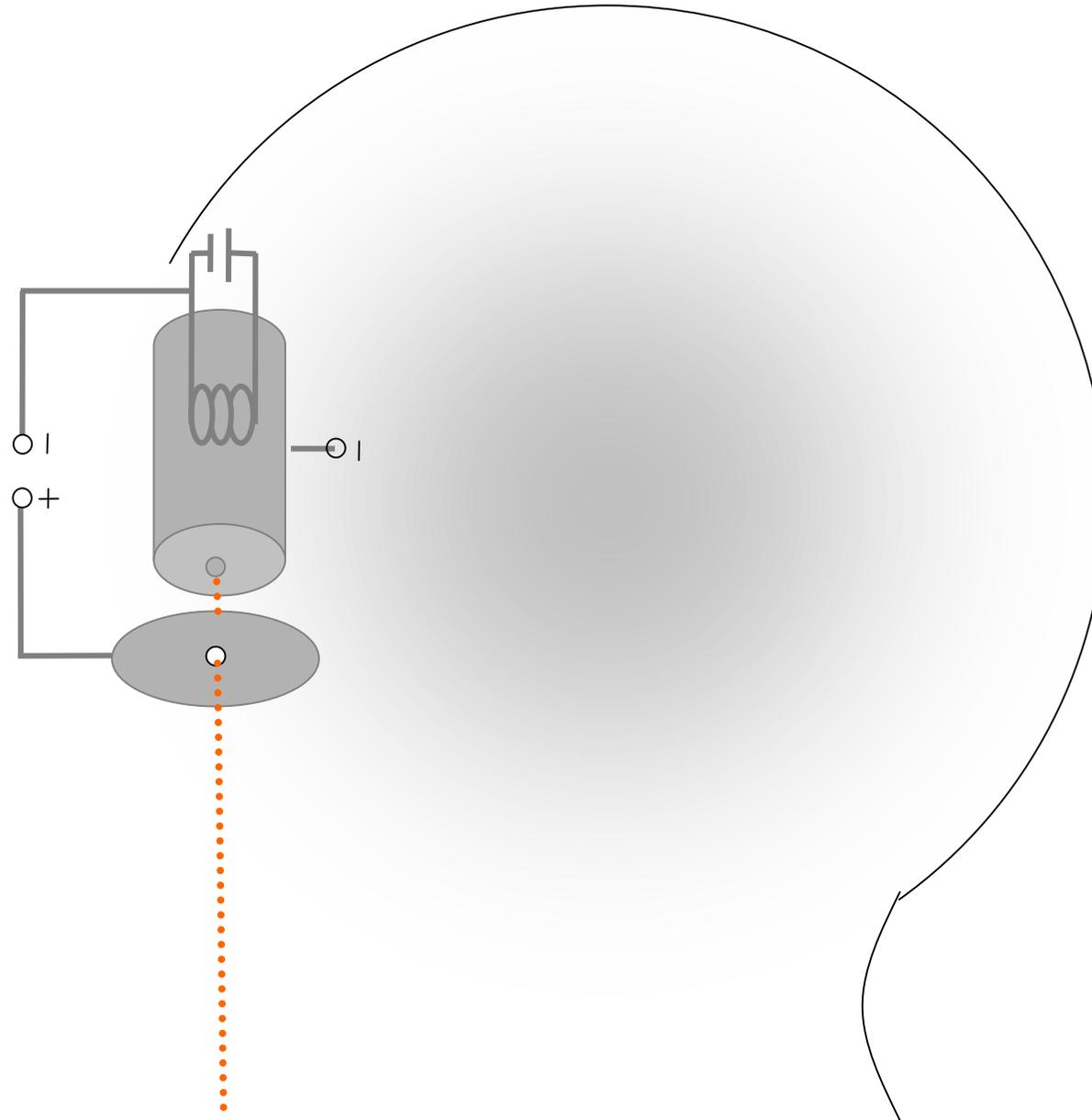


- Energie
- Impuls
- Ladung
- Masse
- Lebenszeit

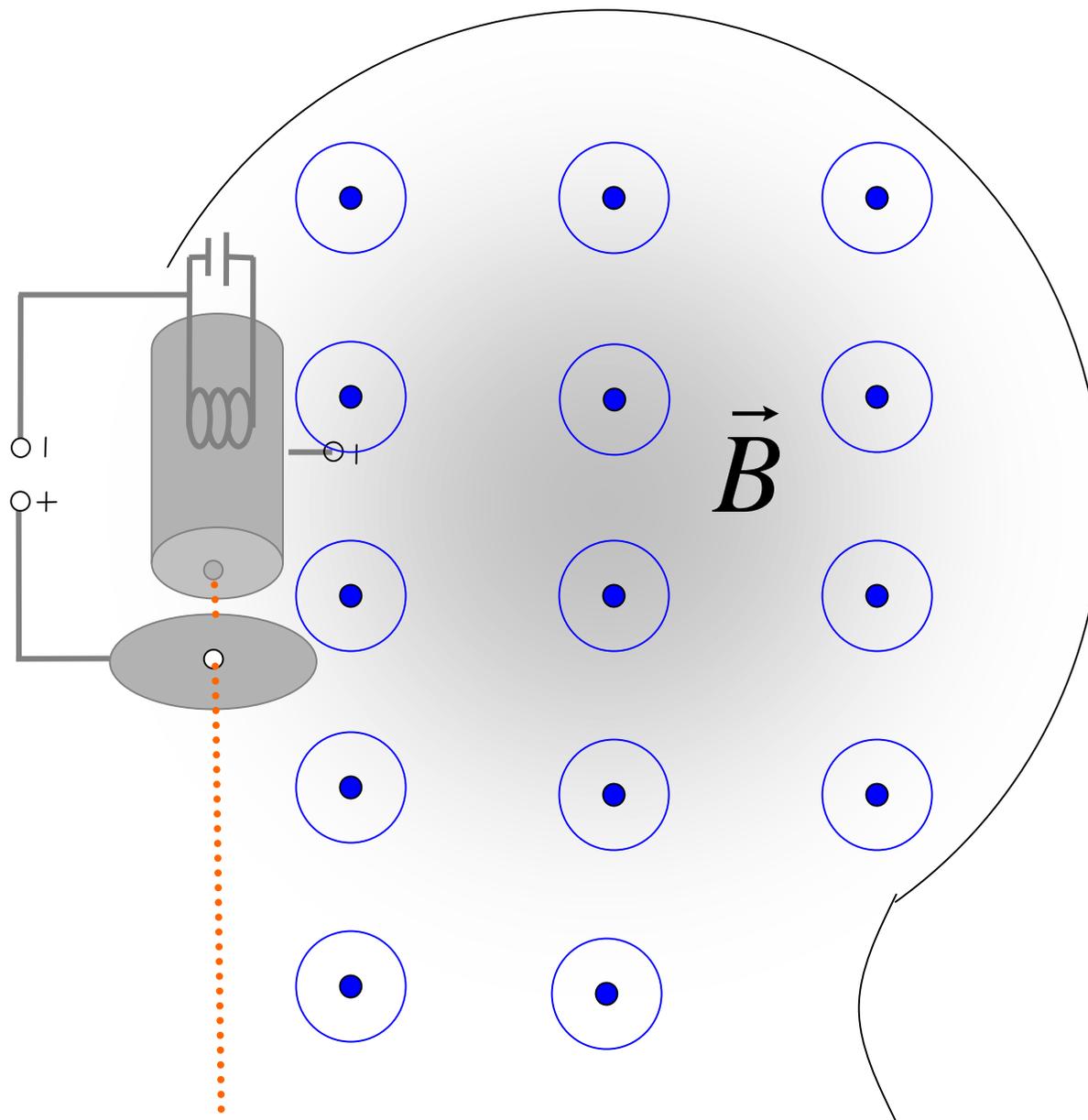




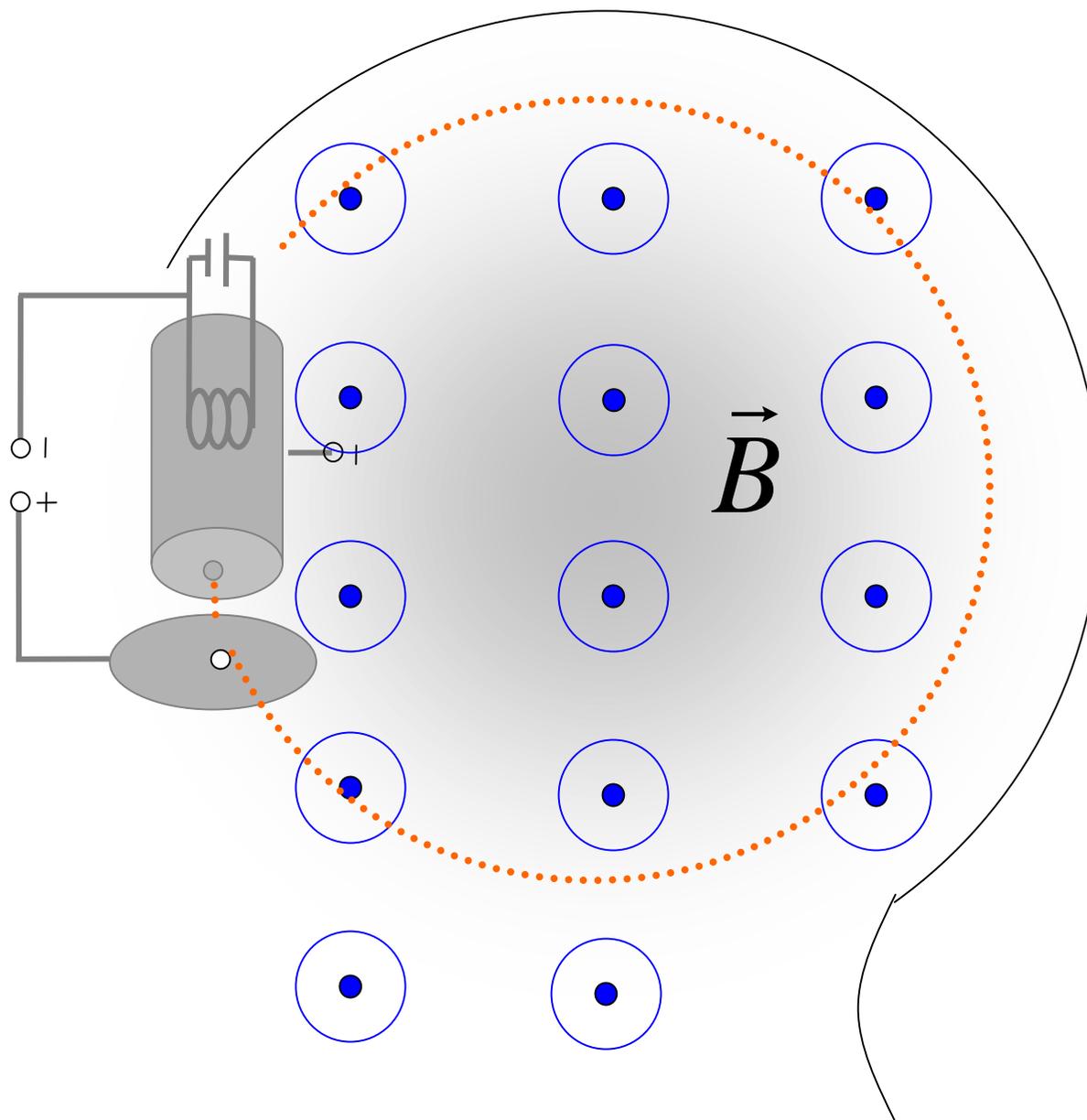
Fadenstrahlröhre



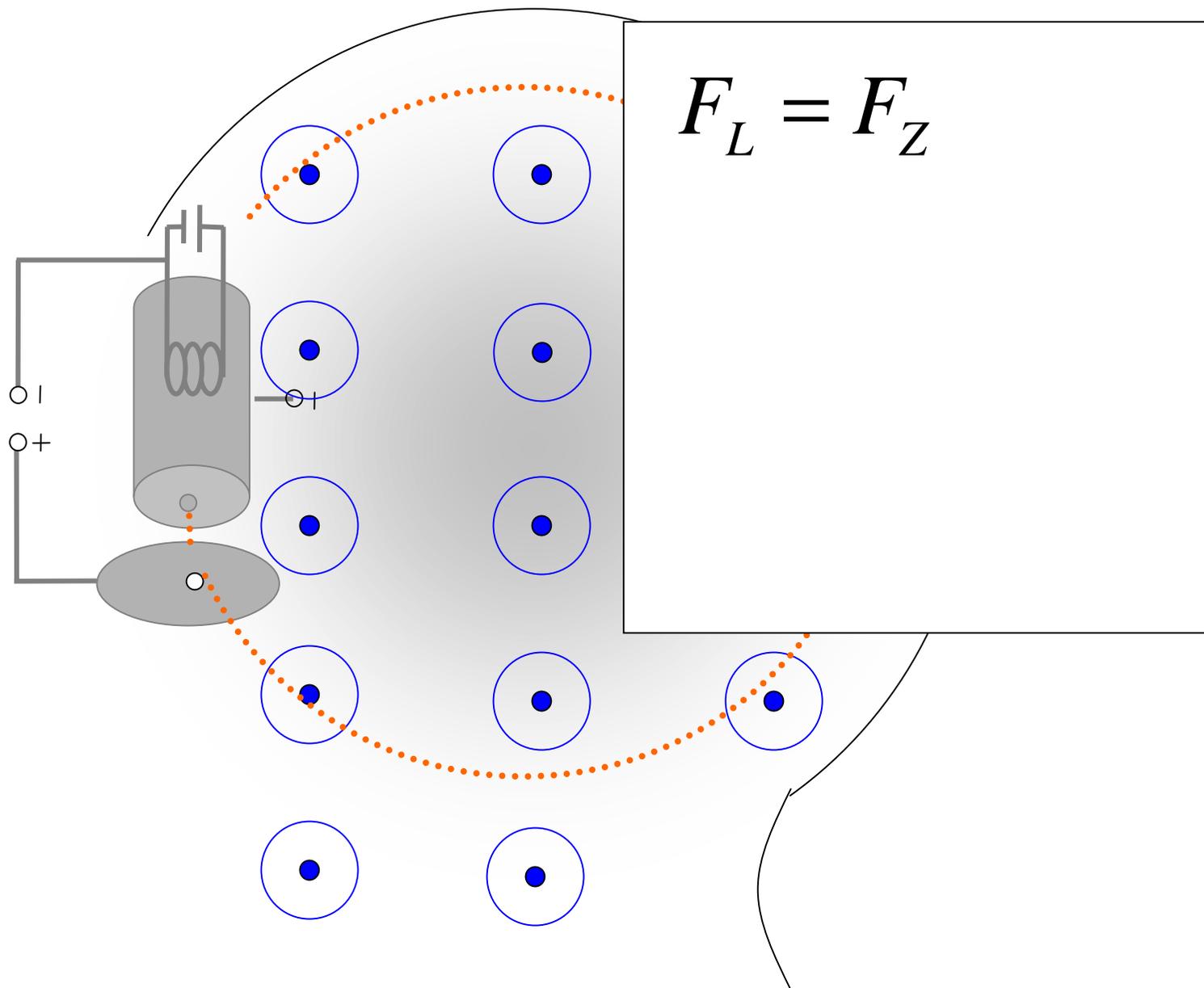
Fadenstrahlröhre



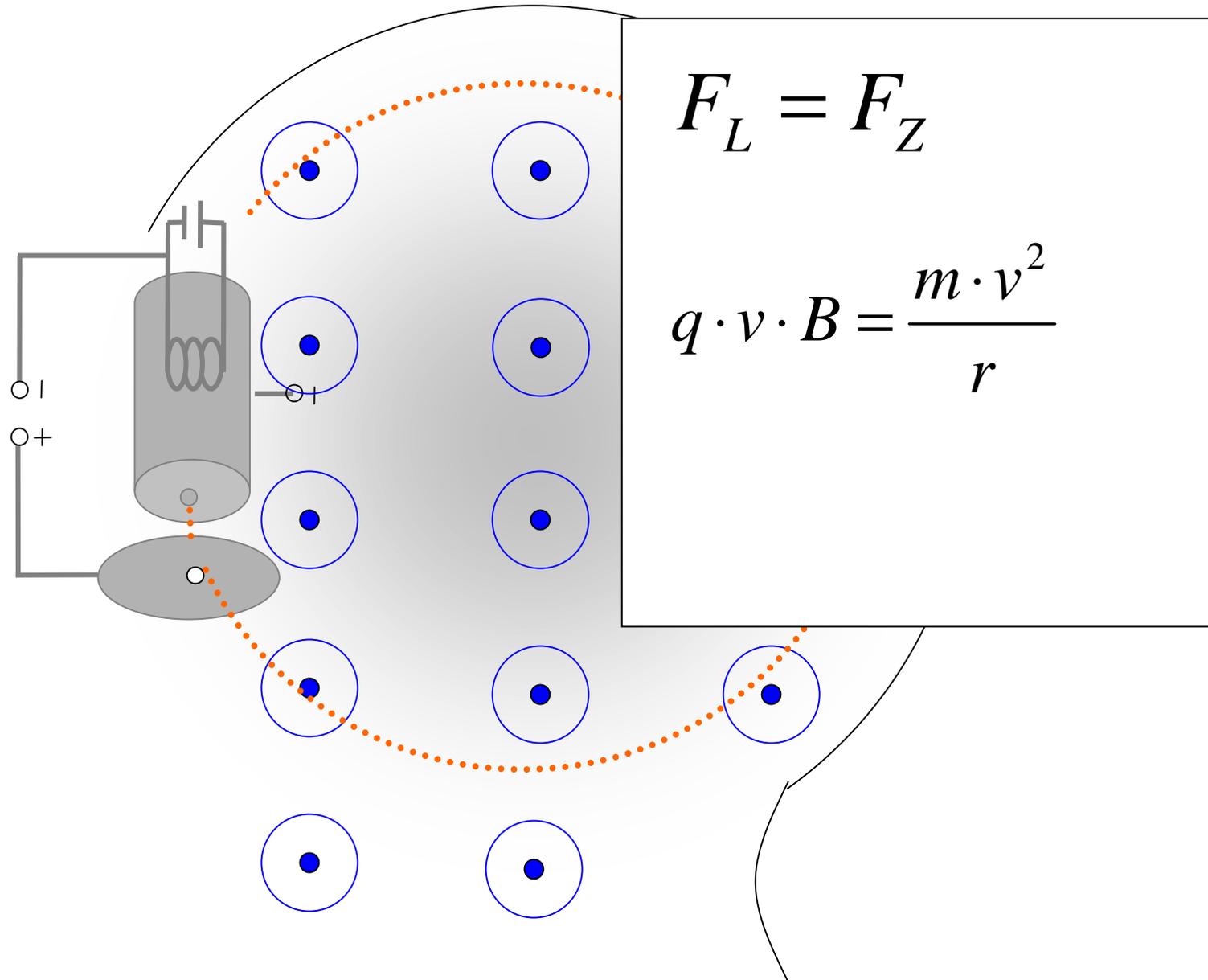
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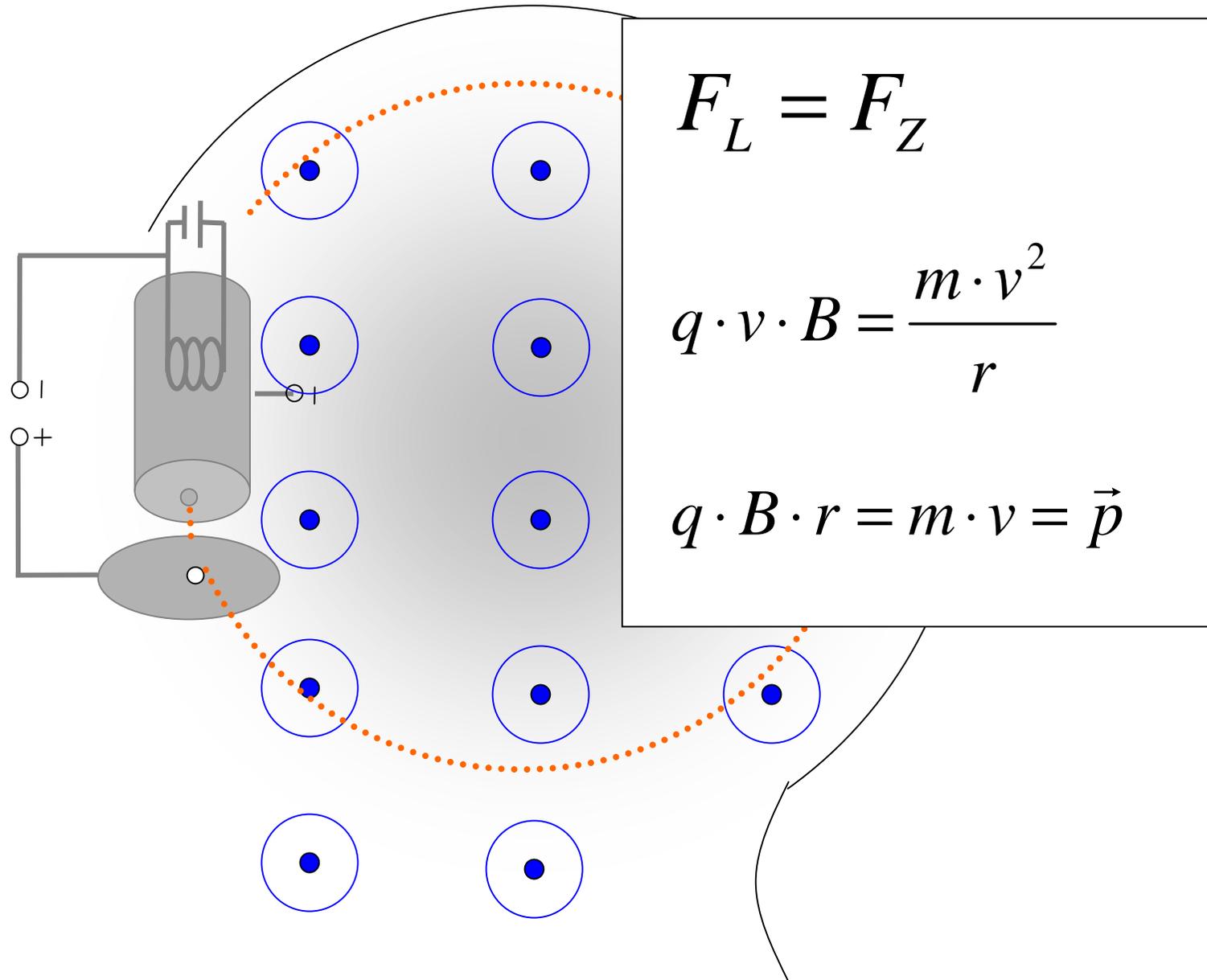
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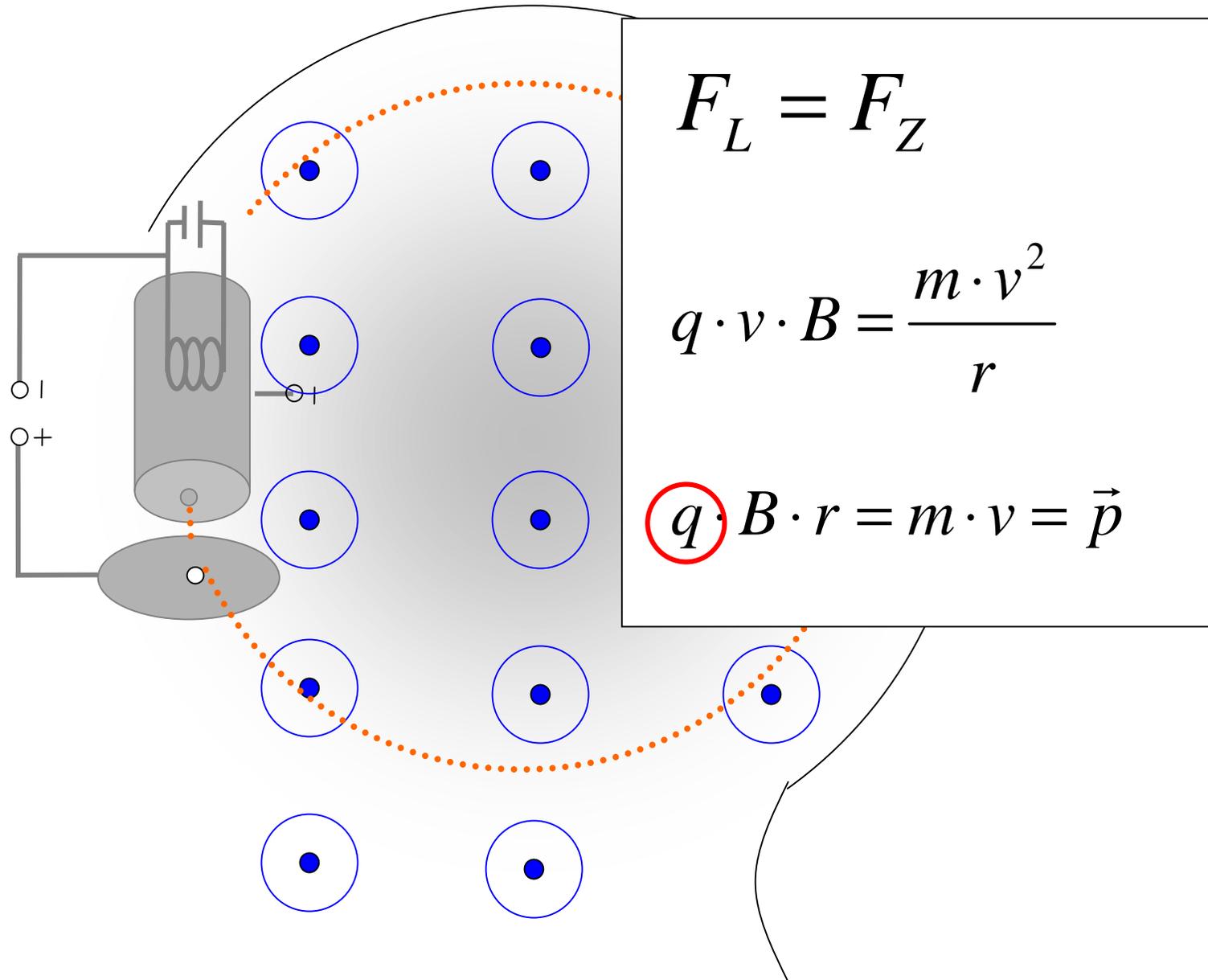
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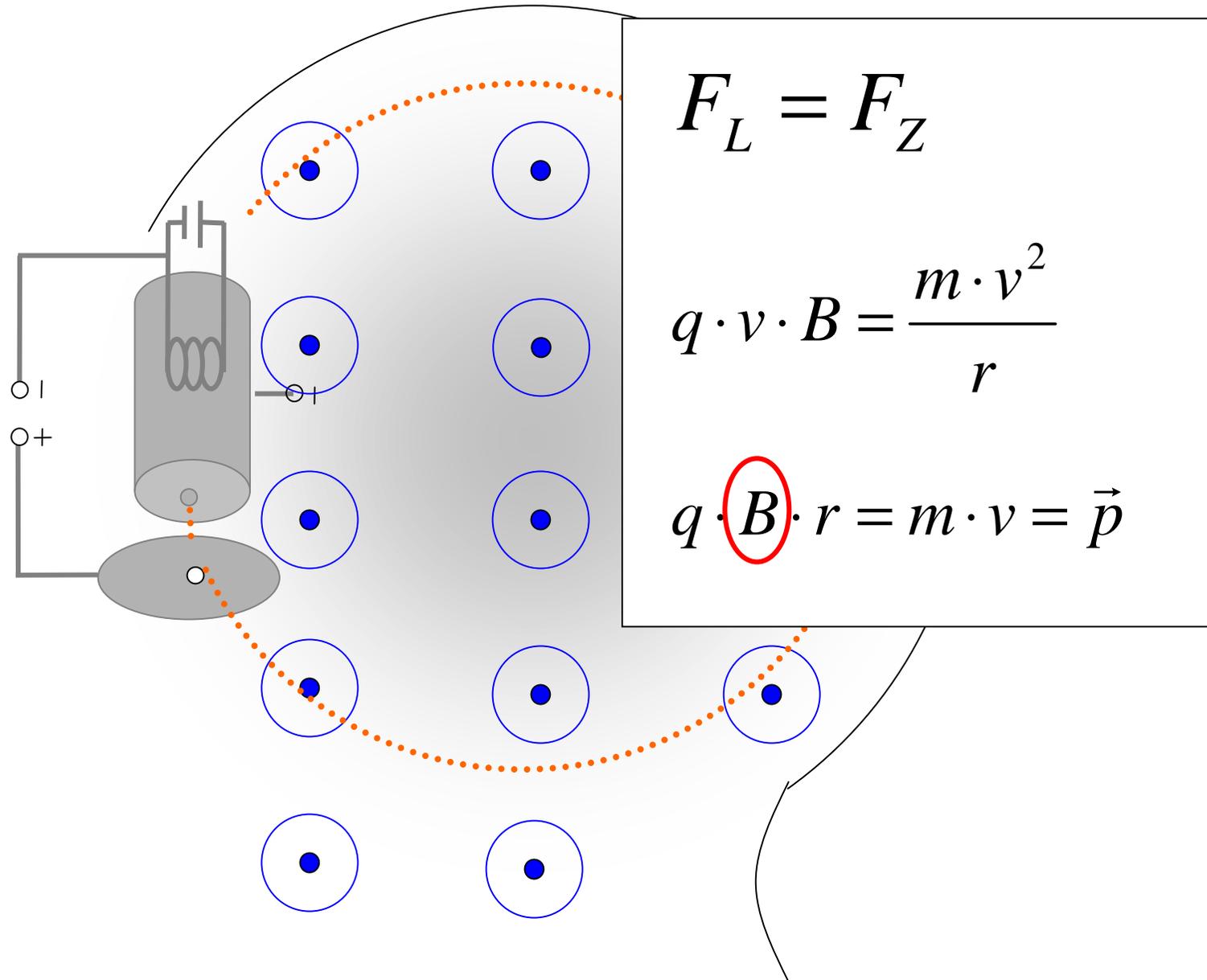
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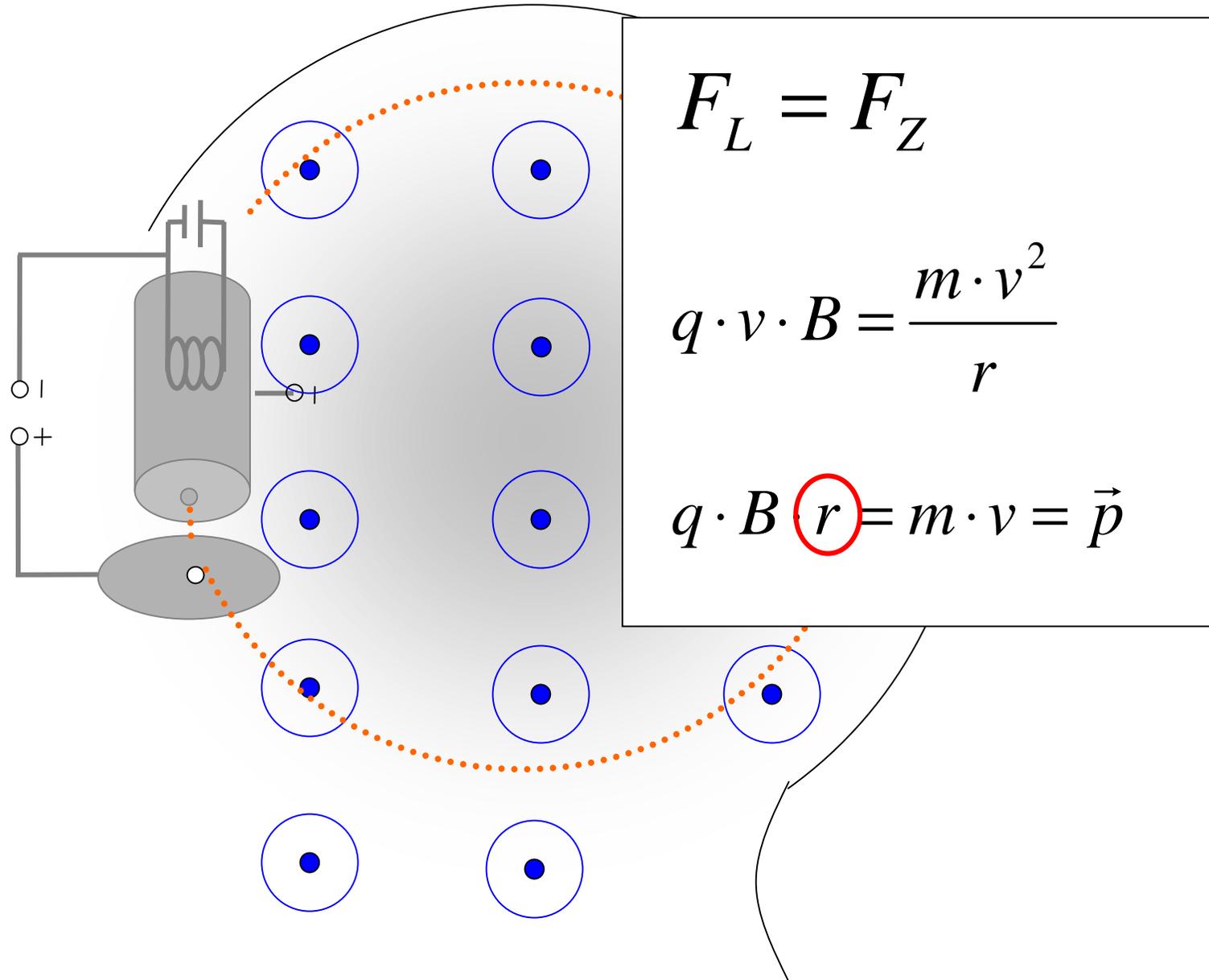
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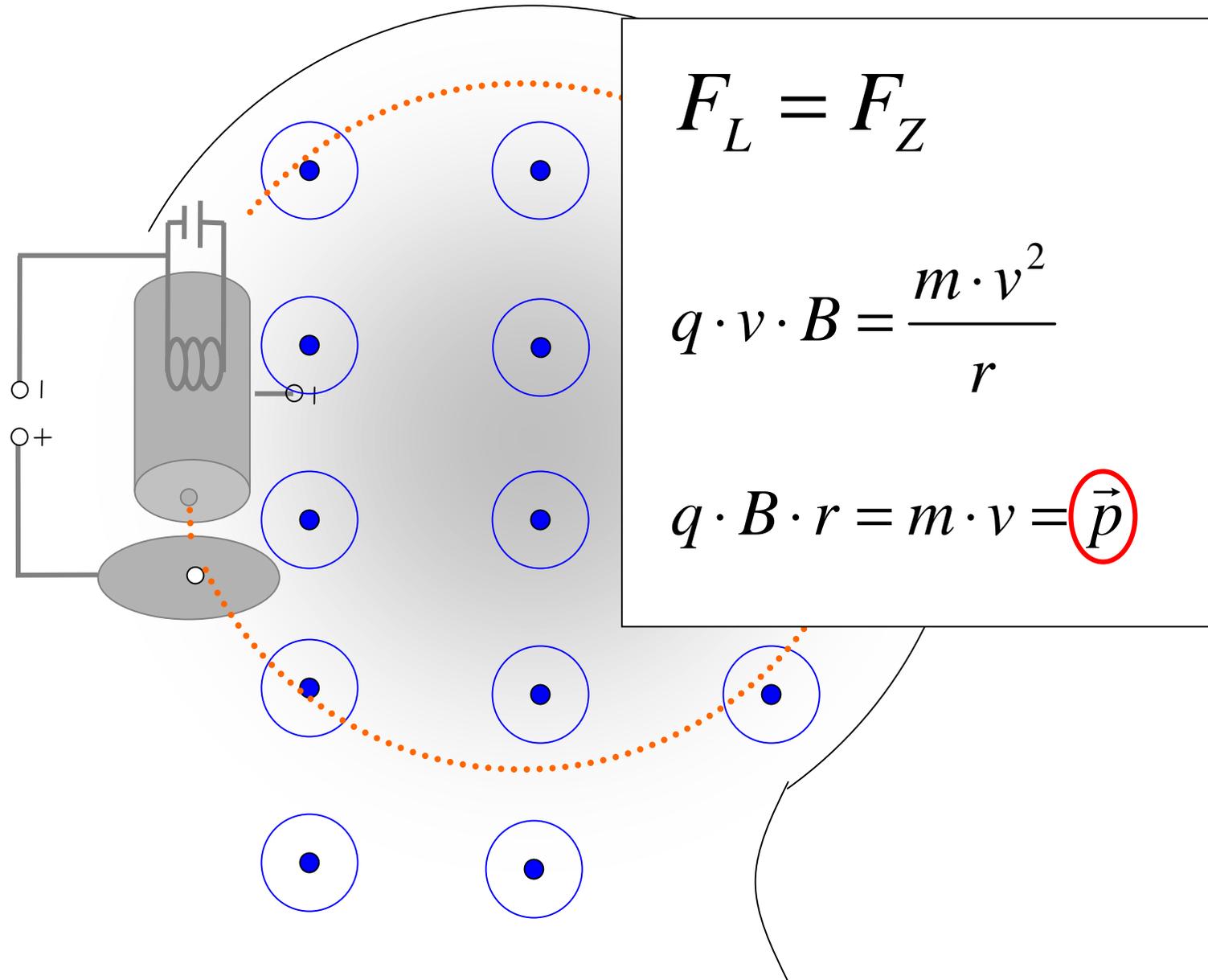
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Fadenstrahlröhre



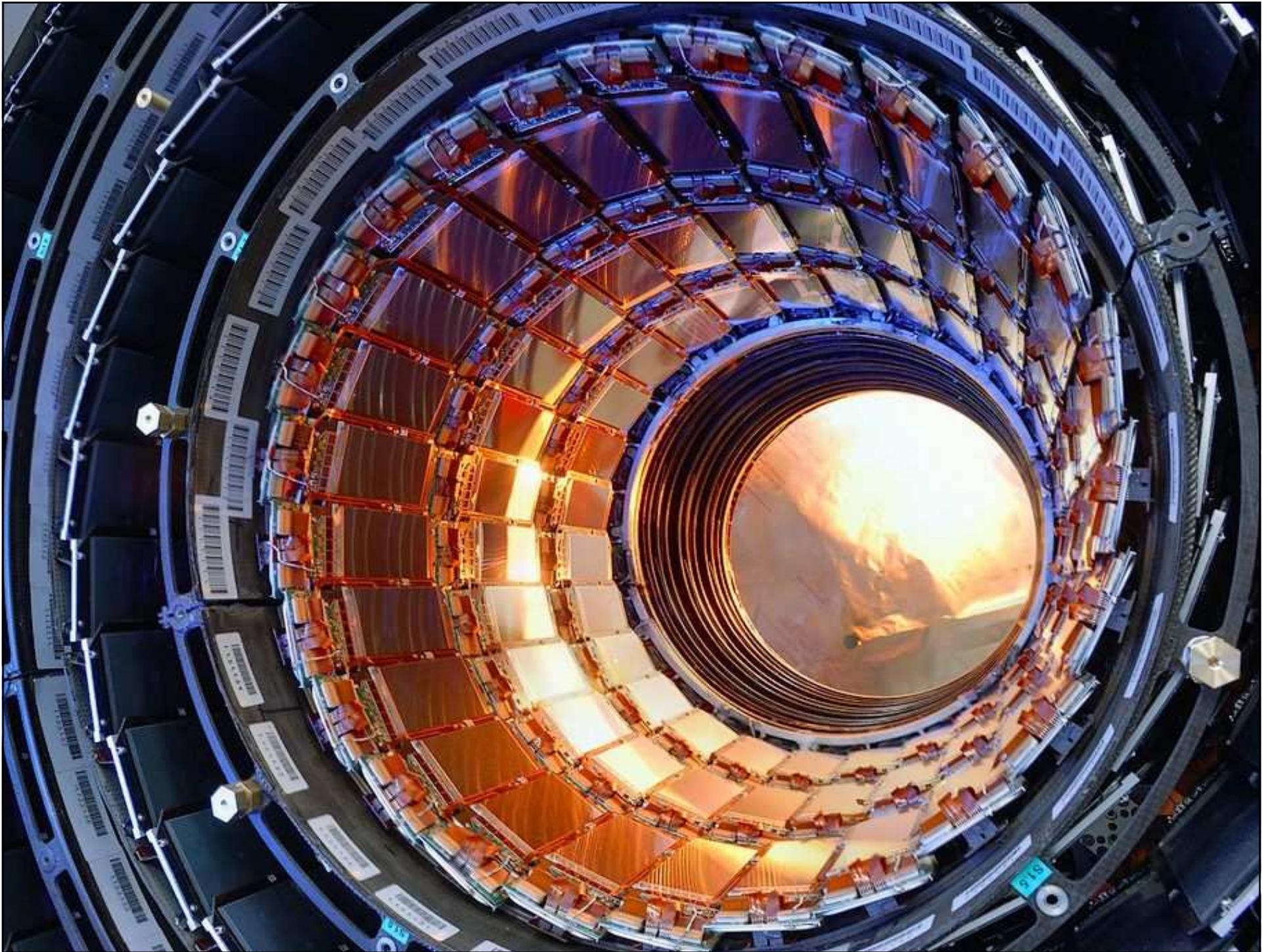
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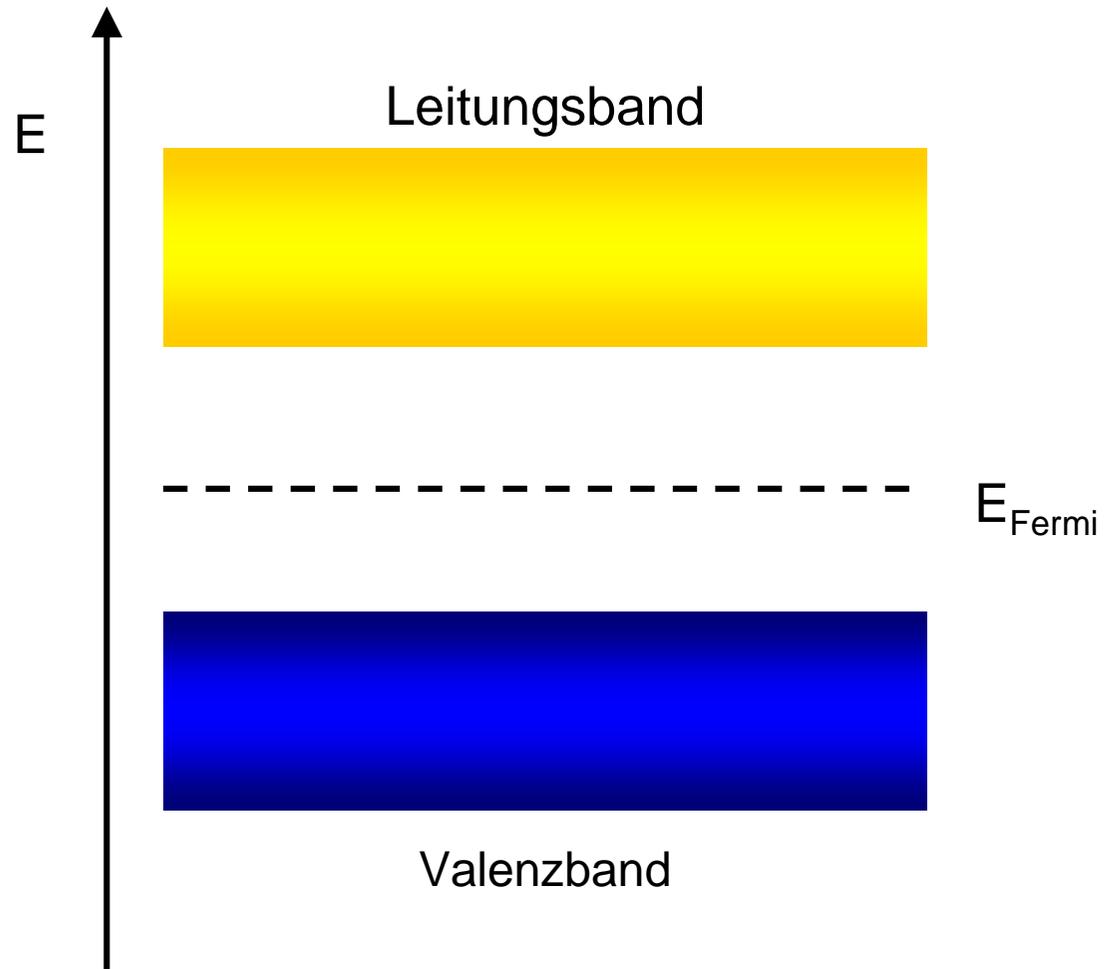
$$F_L = F_Z$$

$$q \cdot v \cdot B = \frac{m \cdot v^2}{r}$$

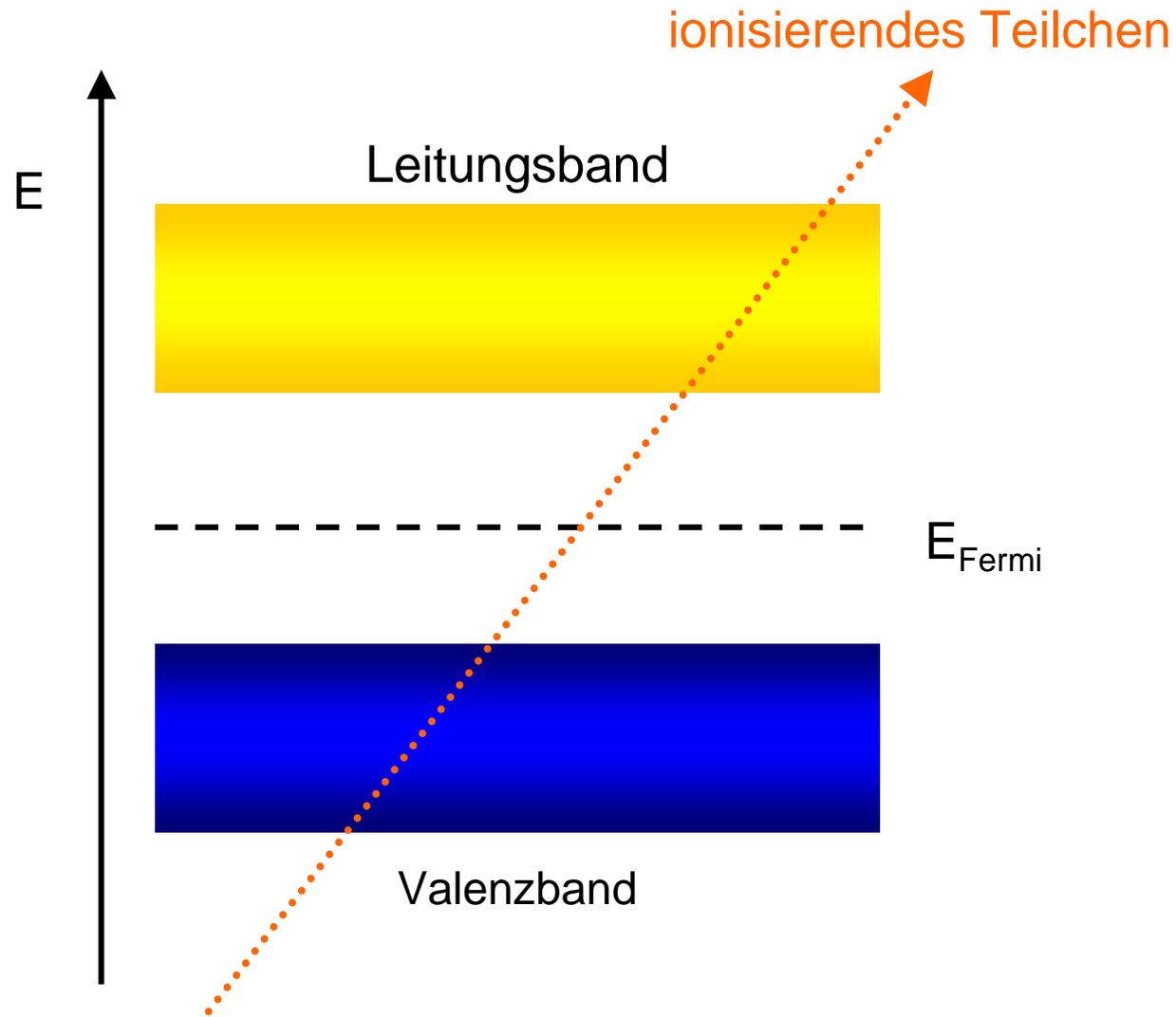
$$q \cdot B \cdot r = m \cdot v = \vec{p}$$



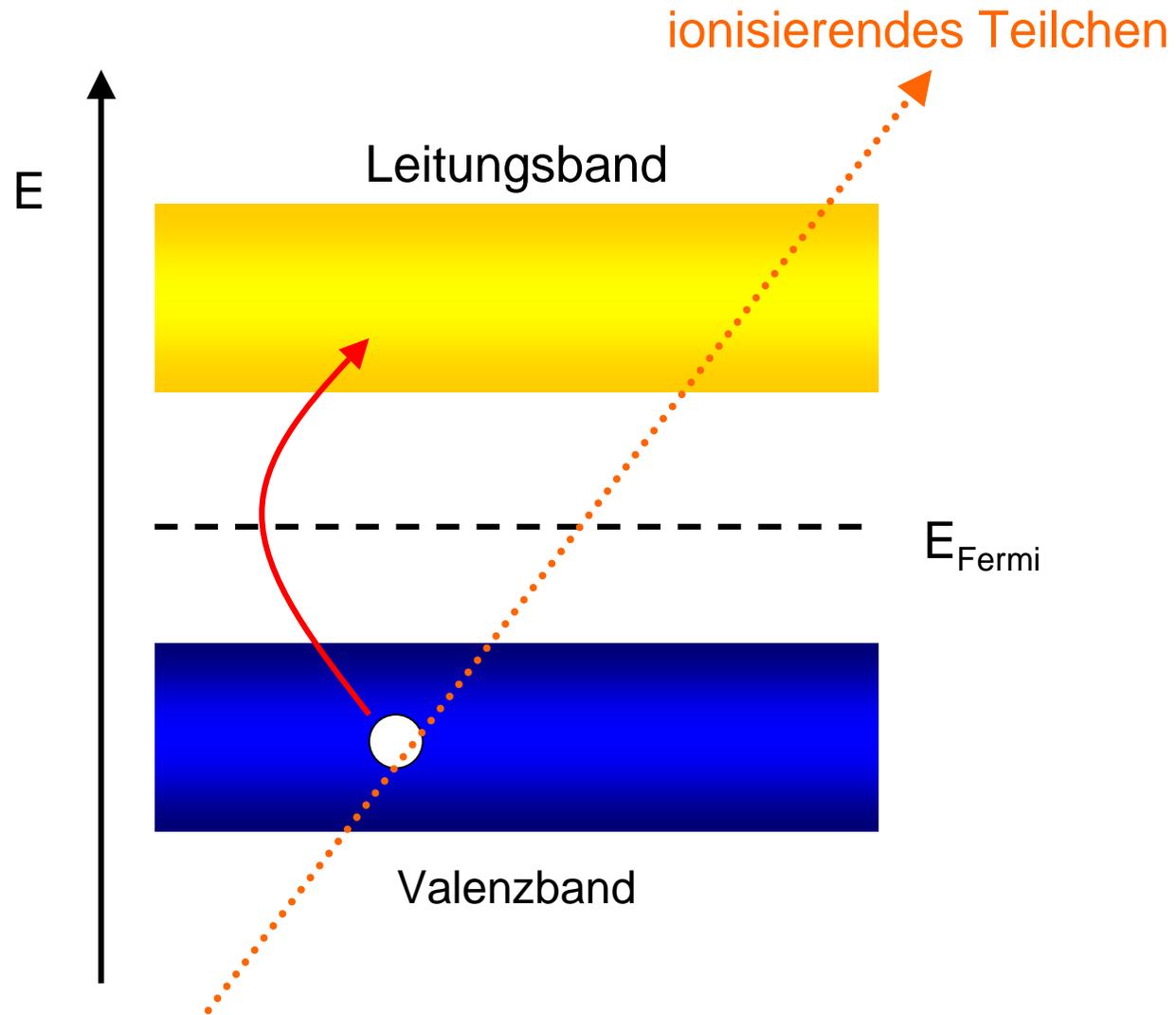
Halbleiterdetektor



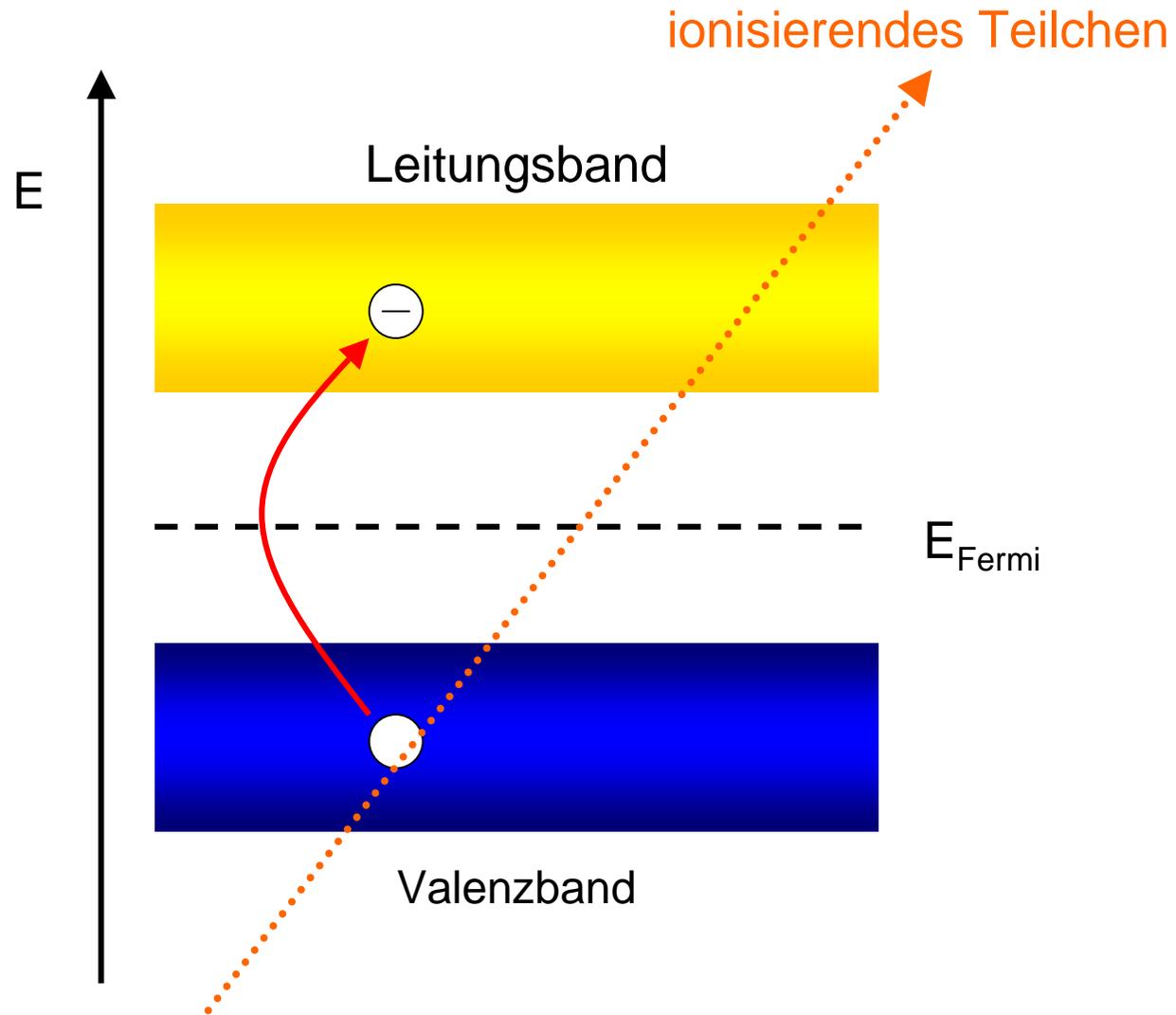
Halbleiterdetektor



Halbleiterdetektor



Halbleiterdetektor



CMS-Spurendetektor

