Angular Correlation of Annihilation Radiation (ACAR)
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......
\[ ^{22}_{11}\text{Na} \]

\[ Q_{EC} = 2842.2 \]

\[ ^{22}_{10}\text{Ne} \]

3.63 ps \( 2^+ \)

99.944 1274.53 E2

1274.542

99.962% 7.4

0.038% 15.1°

2.6019 y 

\approx 0
Angular Correlation of Annihilation Radiation (ACAR) : Required Knowledge

- Gam
- Tun
- Comp
- Gei
- Comp
- Int
- Bet
- TRI
- Principles of
- Principles of
- What?
- What?
- Tech
- Comp
- Principles of
Angular Correlation of Annihilation Radiation (ACAR): Tasks and Goals

- Set-up
- Produce
- Set-up
- Determine
- Determine
- Determine energy
- Determine the
- Measure energy
- Determine
- Compare energy

**WARNINGS**
- Be careful.
- Shut down
- Never touch
- Remove source after measurement
Messung der winkelabhängigen Koinzidenzrate

Zählrate \([1/1000 \text{ s}^{-1}]\)

Korrelationswinkel \(\theta \) [mrad]

- Meßdaten
- Untergrund
- Fermi-Parabel
- Winkelauflösung

\(\theta_F\)