

EMC Effect for $A=3$

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Outline

1 EMC Effect

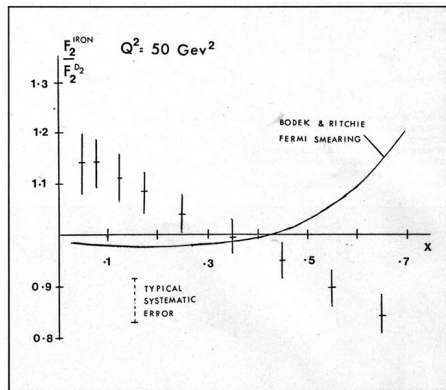
2 Second Section

I

In 1983, the European Muon Collaboration (EMC) published their experimental results for the Nuclear structure functions of Iron and Deuterium. This data was used to determine:

- Nucleon Structure Functions
- Sea-Quark Distributions
- Gluon Distributions

Figure : EMC data of F_2^{Fe}/F_2^D from 1982 [Higinbotham D., 2013].

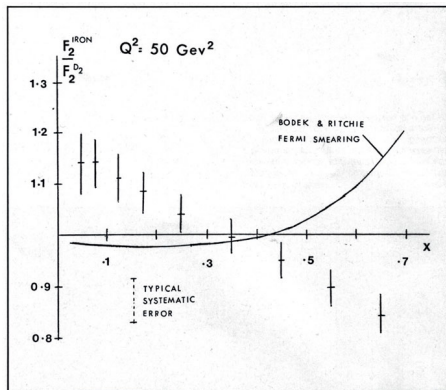


EMC Effect

European Muon Collaboration:

- Expected $F_A = NF_2^N + ZF_2^P$
- Because the binding energies of the nucleons are several orders of magnitude smaller than the momentum transfer for an interaction
- Fermi interaction causing differentiation at high moment transfer.

Figure : EMC data of F_2^{Fe}/F_2^D from 1982 [Higinbotham D., 2013].



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- Nam cursus est eget velit posuere pellentesque
- Vestibulum faucibus velit a augue condimentum quis convallis nulla gravida

Bullet Points

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Blocks of Highlighted Text

Block 1

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Block 2

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Block 3

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Heading

- 1 Statement
- 2 Explanation
- 3 Example

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Table

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table : Table caption

Theorem

Theorem (Mass–energy equivalence)

$$E = mc^2$$

Example (Theorem Slide Code)

```
\begin{frame}  
\frametitle{Theorem}  
\begin{theorem}[Mass--energy equivalence]  
$E = mc^2$  
\end{theorem}  
\end{frame}
```

Figure

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.

An example of the `\cite` command to cite within the presentation:

This statement requires citation [Higinbotham D., 2013].



Douglas Higinbotham (2013)

The EMC effect still puzzles after 30 years

Cern Courier April 2013.

The End