



## Experimental Study of the Carbon-Nitrogen-Oxygen Cycle at Low Energy

By Daniel Bemmerer

VDM Verlag Dr. Müller E.K. Jan 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x6 mm. Neuware - At stellar temperatures, radiative proton capture on nitrogen-14 is the slowest of the carbon-nitrogen-oxygen (CNO) cycle of thermonuclear reactions. The CNO cycle burns hydrogen into helium and dominates energy production at some point in the lifetime of most stars. The objective of the present work is to improve our knowledge of the CNO cycle by making a precise cross section measurement at energies lower than any attained before. The LUNA2 400 kV accelerator, located deep underground in the Gran Sasso laboratory, has been used for the experiments. Previous to the actual experiment, dedicated setups were used to identify and localize the sources of the background counting rate and to study the thinning of the target gas by the power deposited by the ion beam in the gas. The results of the present work confirm other recent theoretical, indirect and experimental studies that revised the cross section at low energies down to one half the previously accepted value. In conclusion, the implications of the revised S-factor for cosmology and for the solar neutrino spectrum are discussed. 104 pp. Englisch.



**READ ONLINE**  
[ 5.78 MB ]

### Reviews

*Very good e book and helpful one. it was writtern quite properly and helpful. I am quickly could possibly get a enjoyment of looking at a composed book.*

-- **Connor Lowe IV**

*A really wonderful ebook with perfect and lucid answers. It is rally interesting throug looking at period of time. Once you begin to read the book, it is extremely difficult to leave it before concluding.*

-- **Gustave Moore**

## Related Kindle Books



### **Psychologisches Testverfahren**

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



### **Programming in D**

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



### **TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2) (Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Pre-employment Training software download generated pictures...



### **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Pre-employment Training software download generated pictures...



### **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Pre-employment Training software download generated pictures...



### **The Savvy Cyber Kids at Home: The Defeat of the Cyber Bully (Paperback)**

Createspace, United States, 2014. Paperback. Book Condition: New. Taylor Southerland (illustrator). 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The adventures of CyberThunder (Tony) and CyberPrincess (Emma) continue in The Savvy Cyber Kids at Home: The...