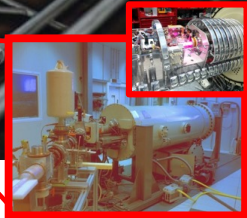


# LUNA: a long history of discoveries and the best is yet to come...

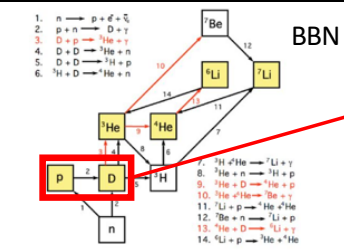


LUNA 50 kV  
- 1992/00

LUNA 400 kV  
- 2000/



LUNA annual meeting,  
Napoli January 2020



## Deuterium Primordial abundance

Article 210 | Nature | Vol 587 | 12 November 2020  
**The baryon density of the Universe from an improved rate of deuterium burning**

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## Paving the way to solve solar neutrino problem

VOLUME 82, NUMBER 26 PHYSICAL REVIEW LETTERS 28 JUNE 1999

First Measurement of the  ${}^3\text{He}({}^2\text{He}, 2p){}^4\text{He}$  Cross Section down to the Lower Edge of the Solar Gamow Peak

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## Isotopical abundances of AGB meteorites

nature astronomy LETTERS  
 PUBLISHED: 30 JANUARY 2017 | VOLUME: 11 | ARTICLE NUMBER: 0027

Origin of meteoritic stardust unveiled by a revised proton-capture rate of  ${}^{17}\text{O}$

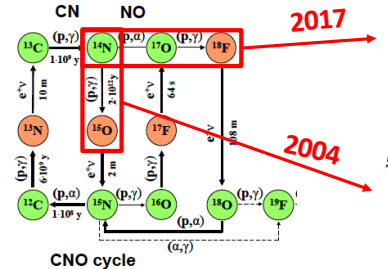
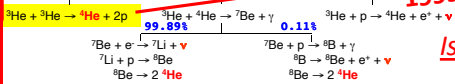
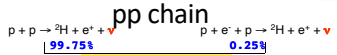
M. Lugaro<sup>1,2,3</sup>, A. I. Karakas<sup>4,5</sup>, C. G. Bruno<sup>6</sup>, M. Allotta<sup>7</sup>, L. R. Nittler<sup>8</sup>, D. Benmerer<sup>9</sup>, A. Best<sup>10</sup>, A. Boeltz<sup>11</sup>, C. Broggini<sup>12</sup>, A. Cacioli<sup>13</sup>, F. Cavanna<sup>14</sup>, G. F. Ciani<sup>15</sup>, P. Corvisiero<sup>16</sup>, T. Davison<sup>17</sup>, R. Depalo<sup>18</sup>, A. Di Leva<sup>19</sup>, Z. Elekes<sup>20</sup>, F. Ferraro<sup>21</sup>, A. Formicola<sup>22</sup>, Zs. Fülöp<sup>23</sup>, G. Gervino<sup>24</sup>, A. Guglielmetti<sup>25</sup>, C. Gustavino<sup>26</sup>, Gy. Gyürky<sup>27</sup>, G. Imbriani<sup>28</sup>, M. Junker<sup>29</sup>, R. Menegazzo<sup>30</sup>, V. Mossa<sup>31</sup>, F. R. Pantaleo<sup>32</sup>, D. Piatti<sup>33</sup>, P. Prati<sup>34</sup>, D. A. Scott<sup>35</sup>, O. Straniero<sup>36,37</sup>, F. Strieder<sup>38</sup>, T. Szűcs<sup>39</sup>, M. P. Takács<sup>40</sup> and D. Trezzi<sup>41</sup>

## Direct estimate of the age of the universe

A&A 420, 625–629 (2004)  
 DOI: 10.1051/0004-6361:20040981  
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Astronomy & Astrophysics  
 The bottleneck of CNO burning and the age of Globular Clusters

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