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Atomic Mass Evaluation 2016

The atomic mass is a key for a better understanding of nuclear structure and nucleosynthesis process within stars. The atomic mass table is widely used in almost all domains of physics, especially in nuclear physics and astrophysics, and they are regarded as the most comprehensive and reliable source of atomic masses.The newest atomic mass table, AME2016, has been published recently[1,2]. Some new features and developments in AME2016 will be mentioned, and some of the most precise mass-spectrometric results will be discussed.

[1] W.J. Huang, G. Audi, Meng Wang, F.G. Kondev, S. Naimi and Xing Xu, The AME2016 atomic mass evaluation (I). Evaluation of input data; and adjustment procedures. Chinese Physics C, 41(2017)030002.

[2] Meng Wang, G. Audi, F.G. Kondev, W.J. Huang, S. Naimi and Xing Xu, The AME2016 atomic mass evaluation (II). Tables, graphs and references, Chinese Physics C, 41(2017)030003

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