

2010

26th April 2010, ATOMKI, Debrecen, Hungary, **invited by the CEO ATOMKI, Debrecen, Hungary, Prof. Zsolt Fulop**

A new approach for the $^3\text{He}+^4\text{He}$ experiment

C.Bordeanu

4th November 2010, "Informal workshop on the $^3\text{He}(\alpha, \gamma)^7\text{Be}$ reaction" ATOMKI, Debrecen, **Hungary**

'The planned high energy activation experiment in Atomki', oral

C.Bordeanu

2011

28th April 2011, Eotvos Lorand University, Budapest, **Hungary, invited by Prof. Adam Kiss**

OVERVIEW ON THE ASTROPHYSICAL IMPORTANCE FOR THE $^3\text{He}+^4\text{He}$ EXPERIMENT

C. Bordeanu

30th November 2011, **REA (Research Executive Agency – European Commission, Bruxelles)** meeting at **National Innovation Office, Budapest, Hungary, invited by Dr. Elod Nemerkenyi, Assistant of International Affairs, Hungarian Scientific Research Fund**

High precision astrophysical factor measurement for the $^3\text{He}+^4\text{He}$ reaction which takes place in our Sun on a large energy scale

C.Bordeanu

The Nordic Conference on Nuclear Physics Stockholm 13-17 June, Sweden

"Overview on the astrophysical importance for the $^3\text{He}+^4\text{He}$ experiment", oral

([www.nuclear.kth.se/NCNP2011/Presentation_files /C.Bordeanu.pdf](http://www.nuclear.kth.se/NCNP2011/Presentation_files/C.Bordeanu.pdf))

C.Bordeanu

2012

Nuclear Structure and Dynamics, Opatija, Croatia 9-13 July 2012

" $^3\text{He}+^4\text{He}$ astrophysical factor study using activation method", oral

C.Bordeanu

Cross section measurement of the $^3\text{He}(\alpha, \gamma)^7\text{Be}$ reaction at high energies, poster

C. Bordeanu, Gy. Gyürky, Z. Halász, T. Szücs, Zs. Fülöp, G.G. Kiss, Z. Elekes, J. Farkas, E. Somorjai

XII International Symposium on Nuclei in the Cosmos 5-10 August 2012, Cairns, Australia

30th August 2012, ATOMKI, Debrecen, **Hungary, invited by the CEO ATOMKI, Debrecen, Hungary, Prof. Zsolt Fulop**, to summarize my two years of work at ATOMKI as Principal Investigator

Work and results at ATOMKI for the $^3\text{He}+^4\text{He}$ experiment, OTKA 82409 project
C.Bordeanu

Thin-window gas cell target for activation cross-section measurements relevant for nuclear astrophysics

Bordeanu C., Gyürky G.Y., Elekes Z., Farkas, J., Fülöp Z.S., Halász Z., Kiss G.G.G., Somorjai E., Szücs T.

NIM A 693, 220-225

A new cross-section measurement of the astrophysically important $^3\text{He}(\alpha, \gamma) ^7\text{Be}$ reaction at high energies

Bordeanu C

Physica Scripta (T150) , art. no. 014009

$^3\text{He}+^4\text{He}$ astrophysical factor study using activation method

C.Bordeanu

Nuclear Structure and Dynamics, Opatija, Croatia 9-13 July2012, oral presentation, 4 pages

Cross section measurement of the $^3\text{He}(\alpha, \gamma) ^7\text{Be}$ reaction at high energies

C. Bordeanu, Gy. Gyürky, Z. Halász, T. Szücs, Zs. Fülöp, G.G. Kiss, Z. Elekes, J. Farkas, E. Somorjai

XII International Symposium on Nuclei in the Cosmos 5-10 August 2012, Cairns, Australia, poster, 1 page

2013

Activation measurement of the $^3\text{He}(\alpha, \gamma) ^7\text{Be}$ reaction cross section at high energies

Bordeanu C., Gyürky G. , Halász Z., Szücs T., Kiss G.G., Elekes Z., Farkas J., Fülöp Z., Somorjai E.

Nuclear Physics A, Volume 908, 2013, Pages 1-11

arXiv: 1304.4740

Activation measurement of the $^3\text{He}(\alpha, \gamma) ^7\text{Be}$ reaction cross section at high energies

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