

## BNL-108024-2015-JA

## Evidence of a slight nuclear transparency in the alpha-nucleus systems

L C Chamon1, L R Gasques1, G P A Nobre2, E S Rossi Jr.1, 3, R J deBoer4, C Seymour4, M Wiescher4 and G G Kiss5.

 Departamento de F´ısica Nuclear, Instituto de F´ısica da Universidade de S˜ao Paulo,Caixa Postal 66318, 05315-970, S˜ao Paulo, SP, Brazil.
National Nuclear Data Center, Brookhaven National Laboratory, Upton, NY 11973-5000, USA.
Centro Universit´ario FIEO - UNIFIEO, Osasco, SP, Brazil.
Department of Physics, University of Notre Dame, Notre Dame, Indiana 46556,USA.

5 Institute of Nuclear Research (ATOMKI), H-4001, Debrecen, Hungary.

E-mail:lchamon@if.usp.br

Submitted to the Journal of Physics G

February 15 2015

## National Nuclear Data Center Brookhaven National Laboratory P.O. Box 5000 Upton, NY 11973-5000 www.bnl.gov

Notice: This manuscript has been co-authored by employees of Brookhaven Science Associates, LLC under Contract No. DE-AC02-98CH10886 with the U.S. Department of Energy. The publisher by accepting the manuscript for publication acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this manuscript, or allow others to do so, for United States Government purposes.

This preprint is intended for publication in a journal or proceedings. Since changes may be made before publication, it may not be cited or reproduced without the author's permission.

## DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.