

r Process (n, γ) Rate Constraints from the γ Emission of Neutron Unbound States in β -Decay

J.L. TAIN¹, V. GUADILLA¹, E. VALENCIA¹, A. ALGORA^{1,14}, A.-A. ZAKARI-ISSOUFOU², S. RICE³, J. AGRAMUNT¹, J. ÄYSTÖ⁴, L. BATIST⁹, M. BOWRY³, J.A. BRIZ², V.M. BUI², R. CABALLERO-FOLCH⁶, D. CANO-OTT⁵, A. CUCOANES², V.-V. ELOMAA⁴, T. ERONEN⁴, E. ESTEVEZ¹, M. ESTIENNE², M. FALLOT², G.F. FARRELLY³, L.M. FRAILE¹⁰, E. GANIOGLU¹¹, A.R. GARCIA⁵, W. GELLETLY³, B. GÓMEZ-HORNILLOS⁶, D. GORELOV⁴, V. GORLYCHEV⁶, J. HAKALA⁴, A. JOKINEN⁴, M.D. JORDAN¹, A. KANKAINEN⁴, V.S. KOLHINEN⁴, F.G. KONDEV⁷, J. KOPONEN⁴, M. LEBOIS¹², L. LE MEUR², T. MARTÍNEZ⁵, P. MASON³, E. MENDOZA⁵, M. MONSERRATE¹, A. MONTANER-PIZÁ¹, I. MOORE⁴, E. NACHER¹³, S.E.A. ORRIGO¹, H. PENTTILÄ⁴, Zs. PODOLYÁK³, I. POHJALAINEN⁴, A. PORTA², P. REGAN³, J. REINIKAINEN⁴, M. REPONEN⁴, S. RINTA-ANTILA⁴, J. RISSANEN⁴, B. RUBIO¹, K. RYTKÖNEN⁴, T. SHIBA², V. SONNENSCHIEIN⁴, A.A. SONZOGNI⁸, V. VEDIA¹⁰, A. VOSS⁴, J.N. WILSON¹²

¹*Instituto de Fisica Corpuscular, CSIC - Univ. Valencia, E-46980 Paterna, Spain*

²*Subatech, CNRS/IN2P3, F-44307 Nantes, France*

³*University of Surrey, Department of Physics, Guilford GU2 7XH, United Kingdom*

⁴*University of Jyväskylä, Department of Physics, P.O. Box 35, FI-40014 Jyväskylä, Finland*

⁵*Centro de Investigaciones Energéticas Medioambientales y Tecnológicas, E-28040 Madrid, Spain*

⁶*Universitat Politècnica de Catalunya, E-08028 Barcelona, Spain*

⁷*Nuclear Engineering Division, Argonne National Laboratory, Argonne, Illinois 60439, USA*

⁸*NNDC, Brookhaven National Laboratory, Upton, New York 11973, USA*

⁹*Petersburg Nuclear Physics Institute, RU-188300 Gatchina, Russia*

¹⁰*Universidad Complutense, Grupo de Física Nuclear, CEI Moncloa, E-28040 Madrid, Spain*

¹¹*Department of Physics, Istanbul University, 34134 Istanbul, Turkey*

¹²*Institut de Physique Nucléaire d*