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**RE: Letter of recommendation for Prof. Dr. Peter Otto Hess,
to become Professor Emeritus.**

To: Dr. Miguel Alcubierre Moya
Instituto de Ciencias Nucleares
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I met Professor Hess many years ago in Frankfurt am Main at the Institut fuer Theoretische Physik, where I was invited each year for at least 3 months per year since 1985. Last year Professor P. Hess edited a memorial book devoted to Walter Greiner (1935-2016), which will be published soon by World Scientific, Singapore. We contributed to this volume with a chapter entitled Cluster Radioactivity - Past and Future, by D.N. Poenaru and R.A. Gherghescu.

In my opinion he proved his excellent abilities of researcher and teacher during his life devoted to these noble activities, inspired by our common mentor and friend — the former Prof.Dr.Dr.H.C.mult Walter Greiner, we regretfully lost in 2016.

At many International Meetings I could see how well is appreciated his research activities in the quite broad fields of Group Theory, Geometric and Microscopic Nuclear Models, Quantum Chromo Dynamics, and Cosmology.

In 1985 (32 years old) he became “Privatdozent”, after sustaining the highest Academic Degree in Germany: Habilitation with a Thesis entitled “Ein

Modell schwerer (riesiger) Kern-moleküle mit exotischen kollektiven Moden" (in English: *A model of heavy (giant) nuclear molecules with exotic collective modes*). Since 1988 (30 years) he is full Professor of Physics.

He is able to speak several languages: German (mother tongue); Spanish (excellent); English (excellent); Portuguese (read); French (reading scientific texts), and Aztec (reading and speaking with problems).

Due to his many achievements and expertise, he occupied many positions in research and education all over the world. e.g.

- from 01.08.2006 to 31.07.2007: MERCATOR full Professor at Frankfurt Institute for Advanced Studies, J.W. Goethe-University, Frankfurt am Main, Germany
- Semestre January 2007 to July 2007: Symmetries in Physics: A pedestrian Introduction, Frankfurt Institute for Advanced Studies, Frankfurt am Main, Germany
- from 15.04.2007 to 20.07.2007: Summer semester (Introduction to group theory: Methods and recipes) J.W. Goethe University, Frankfurt am Main.
- from 01.08.1998 to 31.07.1999: DAAD Gastprofessor C4 (full professor) at Institut für Theoretische Physik, Justus-Liebig University, Giessen, Germany
- Semestre April 1999 to July 1999: Group theoretical models in nuclear physics; Seminar on nuclear reactions, University of Giessen, Germany
- Semestre October 1998 to February 1999: Symmetry in Physics; Theoretical Physics (Nuclear Structure); Symmetries in Field Theory; Seminar on nuclear structure, University of Giessen, Germany
- from 18.06.1992 to 17.06.1993 MERCATOR Gastprofessor at Institut für Theoretische Physik, Justus-Liebig University, Giessen, Germany
- from 01.08.1985 to 1990: Investigador Tit. C, TC Instituto de Ciencias Nucleares (ICN) U.N.A.M., Mexico
- from 01.04.1984 to 30.06.1985: Senior Lecturer at Institute of Theoretical Physics and Astrophysics, University of Cape Town, South Africa
- One trimestre in 1984: Group theory, Classical Mechanics, University of Cape Town, South Africa
- from 01.03.1983 to 29.03.1984: Assistant Professor at G.S.I., Darmstadt, Germany
- in May and June 1983: invited course (Nuclear collective models) at University de Neuchatel, Switzerland

- from 01.01.1981 to 31.12.1982 Visiting Professor, Instituto de Fisica, U.N.A.M. Mexico
- from 01.07.1978 to 31.12.1980 and from 01.01.1983 to 28.02.1983: Assistant Professor at Institut für Theoretische Physik, J.W. Goethe-University, Frankfurt am Main, Germany

There were also many other courses, including: Symmetry in physics; Classical electrodynamics; Quantum Mechanics; Statistical Physics and Thermodynamics; Nuclear Physics, etc.

He occupied various positions at UNAM, e.g. : chief of department (1990-1992); member of the planning committee (1993-2004); member of the postgraduate council in physics; member of the project committee (1990 - 1995); member of the price committee (1996, 1998, 2001-2002); president of the Nuclear Physics Division of the Mexican Physical Society (1995-1996); Associate editor to the Revista Mexicana de Fisica (1997-1998); Representative of the director of the ICN-UNAM (2008-2012); General Secretary of the Mexican Physical Society (2009-2013, 2015), etc.

His scientific publication list is very large, e.g.: one textbook (Pseudo-Complex General Relativity, Springer, Heidelberg, 2015) and many articles in International Journals with high impact factors.

The number of citations of his works by other authors is larger than 1710. His Hirsch factor is 23-25 - very good.

He is an active member of several Professional Institutions: Deutsche Gesellschaft für Luft und Raumfahrt (since 1971); Sociedad Mexicana de Fisica (since 1986); Academia Mexicana de Ciencias (since 1991); Frankfurter Förderverein (since 2000); American Physical Society (since 2008), and New York Academy of Sciences (since 2009).

In conclusion I warmly recommend Professor Dr. Peter Otto Hess, to become Professor Emeritus at the "Universidad Nacional Autonoma de Mexico".



(Dorin N. Poenaru)