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NOBEL COMMITTEE IN PHYSICS

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I have pleasure to nominate for the Nobel Prize in Physics for 2001 **Professor Ruggero Maria Santilli**, President of the Institute for Basic Research, Florida, USA, because of Prof. Santilli's:

(1) Original proposal in 1978 and subsequent construction of hadronic mechanics, a covering of quantum mechanics capable of treating additional nonlinear, nonlocal and nonpotential-nonunitary effects due to deep penetration of the wavepackets of particles.

(2) Construction of an entire new discipline which resulted to be needed for the invariant representation of said nonunitary effects, which includes new numbers (**Santilli's isonumbers** with arbitrary units).

(3) Experimental verifications in particle physics, nuclear physics, molecular physics, superconductivity, astrophysics and cosmology [11] as well as, more recently, industrial applications of hadronic mechanics of clearly historic proportions consisting in the prediction construction and industrial development of "**Hadronic Reactors**" capable of recycling any contaminated liquid waste while producing a new very clean combustible fuel called "**Santilli Magnegas**" [1].



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[1] Web site of USMagnegas

<http://www.santillimagnegas.com>[2] Yu. Arestov et al. Found. Phys.Letters 11, 482 1998.

(Experimental evidence on the inapplicability of Einstein's relativity inside hadrons)

[3] R. M. Santilli: Nuovo Cimento Letters 37,545, 1983 [3a] J.Moscow Phys.Soc.3 255, 199 [3b] and Intern.J. Modern Phys. D7,351, 1998 [3c](Santilli's isotopies of Einstein's special relativity with geometric unification with the general)

[4] R. M. Santilli: Found.Phys. 27,625,1997 [4a] and 27,1159,1997 [4b] latest presentation on hadronic mechanics)

[5] A. O. Animalu and R.M. Santilli, Intern.Jour. Quantum Chemistry 29,175,1995

(Construction of hadronic superconductivity)

[6] R. M. Santilli and D. D. Šhillady, Intern.J. Hydrogen Energy 24, 943 1999[6a]; and 25, 173,2000

[7] R.M. Santilli,Acta. Appl.Math. 50,177,1998

(Proof that hadronic mechanics constitutes a realization of the celebrated argument by Einstein-Popdolsky-Rosen that quantum mechanics is incomplete)

[8] P. Vetro, Editor Rendiconti Circolo Matematico Palermo, Suppl. Vol.42 1996 (entire issue of a well known math. Journal dedicated to Santilli isomathematics)

[9]R.M. Santilli, Intern. J. Modern Phys. A14, 2205,1999 [9a] and Hyperfine Inter. 109,63,1997.

(First and only known CLASSICAL THEORY of antimatter which is consistent with the conventional theory in second quantization).

[10] R. M. Santilli, Found. Phys.Letters 10,307 1997 and Proceedings of the VIII M. Groomsman Meeting on Gravitation and Cosmology, Jerusalem, 1997.

(The only known axiomatically consistent grand unification of electroweak and gravitational interactions based on the embedding of gravitation in the unit of conventional theories)

[11]R. M. Santilli, J. New Energy 4#1, 1999.

(318 pages long review of experimental verifications of hadronic mechanics in all, branches of quantitative sciences, such to disqualify as political any doubt on the validity of the new discipline)

[12] R. M. Santilli, Nuovo Cimento 51, 570, 1967

(First deformations pAB-qBA on record of Lie algebras whose paternity is suppressed in contemporary physics)

[13] R. M. Santilli, Intern. J. Modern. Phys. A14, 3157, 1999.

(Rigorous proof of the catastrophic inconsistencies of all treatments of nonunitary theories via conventional mathematics, with consequential mandatory need for Santilli's isomathematics to achieve an invariant theory)

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