

Abstract Submitted
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Periodic lattice model for our universe. BIN B. JIE, CTSA, Florida, USA, CINDY TIANHUI JIE, MIT 2023 Class, Cambridge, MA, USA, CHIHTANG SAH, Xiamen University, Xiamen, Fujian, China — Since July, 2013 we have studied and demonstrated in six journal articles, and many presentations, contributed at APS March Meetings, and invited and keynotes at international conferences, seminars and symposiums, our successful physics-based Melted Ice-Crystalline-Lattice Model for the electrical charge and inertial mass transports by protons and protons (proton holes or missing protons on the lattice) in the Liquid Phase of pure WATER, based on the 1933 Bernal–Flower Ice Model, proven by the 1935 Linus Pauling residual entropy theory of the 1930–1936 Giauque low temperature heat capacity measurements. Our Melted Ice Lattice Model of LIQUID phase WATER, bridges, in 2 proton mass sensitivity, the SOLID phase WATER ICE model (Hexagonal Close Packet Primitive Unit Cell), and GAS phase WATER (2D water molecule vibrational Kinetic Energies). In this presentation, we show that our protonic Periodic Lattice Model of Water in its Liquid Phase can be applied to model nucleons, cosmons or an international consensus name, OUR Universe and the UNIVERSE. This study has been supported by the estate of the late Linda Chang Su-Nan, a Berkeley high-energy nuclear chemist, via CTSA, Florida, USA.

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