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Lokenath Debnath* (debnath1@utpa.edu), Mathematics Department (MAGC 3.602), 1201 West University Drive, Edinburg, TX 78540. *The Nonlinear Klein-Gordon Equation and Average Variational Principle.*

The average variational principle is used to derive the nonlinear Klein-Gordon equation. Some comments will be made about the relativistic and non relativistic Klein-Gordon equations. (Received September 14, 2011)