1014-37-923   **Bao-Feng Feng*** (`feng@utpa.edu`), 1201 W. University Dr, Department of Mathematics, The University of, Texas-Pan American, Edinburg, TX 78539. *On the quantization of the three-particle Fermi-Pasta-Ulam lattice.* Preliminary report.

Several quantization procedures are considered for an integrable three particle Fermi-Pasta-Ulam lattice. Quantum solutions are obtained and are compared with classical solutions, which are three-particle versions of the stationary and moving intrinsic localized modes. (Received September 26, 2005)