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**Aghalaya S Vatsala\*** ([vatsala@louisiana.edu](mailto:vatsala@louisiana.edu)), Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA 70504-1010, and **Donna Sue Stutson**. *Sub and Super Hyperbolic Linear Partial Fractional Differential Equations with Numerical Results*. Preliminary report.

We obtain a representation form for the sub and super hyperbolic Caputo fractional partial differential equations in one dimensional space with initial and boundary conditions. The solution obtained will depend on the initial condition, boundary conditions and the nonhomogeneous terms and the value of  $q$  as well. We consider both the situations when the equation is  $q$ th order in the time variable, especially when,  $1 < q < 2$ , and  $2 < q < 3$ . For  $q=2$ , it reduces to second order hyperbolic equation. The software MAPLE 16 is used to graphically represent solutions to some linear sub hyperbolic Caputo fractional partial differential equations in one dimensional space. (Received September 14, 2013)