Sohaib Nasir, Devraj Duggal and Isabel Allen* (iallen2@wisc.edu). On a boundary value problem for a time-fractional wave equation with the Riemann-Liouville and Atangana-Baleanu derivatives. Preliminary report.

This paper examines a time-fractional wave differential equation that combines Riemann-Liouville and Atangana-Baleanu definitions of fractional derivatives. A solution is found using separation of variables and the Laplace Transform. (Received September 17, 2019)