1017-47-22   **Marc R Lengfield*** (`marc.lengfield@wku.edu`), Department of Mathematics, Western Kentucky University, 1906 College Heights Blvd. #11078, Bowling Green, KY 42101-1078. *Interpolation of Bergman-type spaces and applications.*

We use results of Kisliakov and Xu and of Freitag to deduce interpolation theorems for Bergman spaces and for Dirichlet-type spaces. We then use these results to compute Banach envelopes and duality for some non-locally convex Bergman-Lorentz spaces. We also obtain results on fractional calculus mappings between Bergman-Lorentz and Hardy-Lorentz spaces. (Received January 11, 2006)