

Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-34-1568 **Jeffrey A. Ehme*** (jehme@spelman.edu), 350 Spelman Lane SW, Dept of Math, Box 214,
Spelman College, Atlanta, GA 30314. *Uniqueness and existence for boundary value problems via
variational equations.*

We will establish existence and uniqueness for solutions to $y^{(n)} = f(x, y, y', \dots, y^{(n-1)})$ subject to right focal or Lidstone boundary conditions. The key assumptions are that f is bounded and that there is uniqueness and existence for the linear variational problems. (Received October 05, 2004)