1027-92-214   **Jonathan Forde*** (`forde@math.utah.edu`), Department of Mathematics, University of Utah, 155 South 1400 East, Room 233, Salt Lake City, UT 84109. *Models of Hepatitis Delta Virus and its Drug Therapy.*

Hepatitis Delta Virus is dependent on the presence of another virus, Hepatitis B, in order to reproduce. This dependence presents unique challenges in the creation of mathematical models. In this talk, I will discuss a model of this system, and use it to help explain some phenomena in drug therapy of HDV. (Received February 27, 2007)