

**Joint AARMS-CRM Workshop:** Recent Advances in Functional  
and Delay Differential Equations  
1–5 November 2007

*Neutral differential equations with  
state-dependent delays*

**Ferenc Hartung**

*Department of Mathematics and Computing*

*University of Pannonia*

*P.O. Box 158*

*H-8201 Veszprem*

*HUNGARY*

hartung.ferenc@uni-pannon.hu

**Abstract**

In this talk we consider a class of neutral differential equations with state-dependent delays. We discuss the method of linearization to study exponential stability of the trivial solution and also the problem of differentiability of the solution with respect to parameters. As an application, we investigate the parameter estimation problem using a quasi-linearization method.