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**Hirotschi Abo\*** (abo@uidaho.edu), 300 Brink Hall, Department of Mathematics, University of Idaho, Moscow, ID 83844, and **Giorgio Ottaviani** and **Chris Peterson**. *Induction for secant varieties of Segre varieties.*

The main goal of this talk is to present an inductive procedure to check whether the secant variety of a given Segre variety has the expected dimension. The basic idea behind this procedure is to reduce the computation of the dimension of the secant variety of the Segre variety to the computation of the dimension of a collection of partial secant varieties of lower dimensional Segre varieties. The method is built around a sequence of specializations and in the process, a high dimensional problem is reduced, to a collection of lower dimensional problems. In this talk, we will discuss examples to illustrate how to use this technique. (Received August 02, 2007)