



McMaster University



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**THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES**

**EXPOSITORY SEMINAR SERIES ON DYNAMICAL SYSTEMS**

**SPEAKER:**

**STEPHAN VAN GILS**  
University of Twente  
The Netherlands

On the Topic:

**"Abelian Integrals and Bifurcation Theory: An Introduction"**

In this talk an introduction will be given to the use of Abelian integrals in bifurcation theory. The following subjects will be explained in some detail:

1. Takens Bogdanov singularity.
2. Abelian integrals for a family of quadratic vector fields.
3. Nonresonant bifurcation.

**Thursday, November 19, 1992 at 1:30 - 2:30 pm, room 3018**

**at**

**The Fields Institute**