

## **Jantzen Robert**

Position: professor, Villanova University

Period covered: Summer 2008 through Summer 2009



### **I Scientific Work**

Collaboration with Donato Bini, Christian Cherubini, Andrea Geralico on mathematical properties of stationary spacetimes, and on the use of the Weyl tensor invariants (specifically the speciality index) as tools for gauge invariant analysis of spatially homogeneous and inhomogeneous dynamics and with Donato Bini, Christian Cherubini and Luigi Stella on the relativistic Poynting-Robertson effect in astrophysics.

### **II Conferences and educational activities**

*Conferences and Other External Scientific Work*

MG12 ICC chair and program organizer

*Other Teaching Duties*

Full time teaching in Mathematical Sciences Dept of Villanova University

### **2009 List of Publications**

The general relativistic Poynting-Robertson effect  
D. Bini, R.T. Jantzen and L. Stella  
Class. Quantum Grav. 26, 055009 (19pp) (2009).

Electrocardiogram of the Mixmaster Universe  
D. Bini, A. Geralico, R.T. Jantzen and C. Cherubini  
Class. Quantum Grav. 26, 025012 (20pp) (2009).