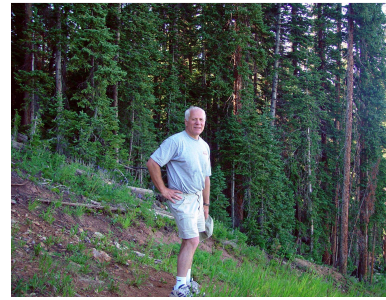


## Titarchuk Lev

Position: Professor of University of Ferrara  
Research Professor of Naval Research  
Laboratory (NRL), Goddard Space  
Flight Center (GSFC), George Mason  
University in USA



Period covered: from November 2007 to November 2008.

### I Scientific Work

Study of spectral and timing properties of Compact objects (black hole and neutron stars). Black hole mass determination using a new scaling method and X-ray observations by RXTE observatory.

### II Conferences and educational activities

#### Conferences and Other External Scientific Work

Participation in a number of Conference:

1. High Energy Astrophysics meeting, Moscow, Russia, December 2007 (invited talk)
2. Observational Evidence of Black Hole meeting, Colkatta, India, February 2008 (invited talk)
3. American Astronomical Society meeting Los Angeles, March 2008 (NASA press release),
4. Milisecond Pulsar meeting, Amsterdam, Netherlands, April (invited talk)
5. Neutron Star Conference in Saint Petersburg, June 2008 2007 (invited talk)

#### Work With Students:

Chiara Ceccobello-graduate student of University of Ferrara,

Andrey Makeev-graduate student of George Mason University

#### Diploma thesis supervision:

Chiara Ceccobello-graduate student of University of Ferrara

Andrey Makeev-graduate student of George Mason University

#### Other Teaching Duties:

Lectures on the course of High Energy Astrophysics in University of Ferrara

#### Work With Postdocs

Drs. Ruben Farinelli and Enrico Montari (University of Ferrara)

Dr. Elena Seyfina (Sternberg Astronomical Institute of Moscow University)

Dr. Nikolai Shaposhnikov (Goddard Space Flight Center)

Dr. Philippe Laurent (Saclay, Paris)

### III Service activities

#### Within ICRANet

Research, Adjunct Professor of ICRANET

### IV Outside ICRANet

Teaching and Research

### V 2007-2008 List of Publications

1 2007 L.Titarchuk, S. Kuznetsov & N. Shaposhnikov ``Correlations between X-ray spectral and timing characteristics in Cygnus X-2'' ApJ, 667, 404

2 2008 L. Titarchuk & N. Shaposhnikov "On the Nature of the Variability Power Decay Towards Soft Spectral States in X-Ray Binaries: Case Study in Cyg X-1" (72717). ApJ, 678, 1230

3 2008 R. Farinelli, L. Titarchuk, A. Paizis, F. Frontera ``A new Comptonization model for low-magnetized accreting neutron stars in low mass X-ray binaries'' ApJ, 680, 602

4 2008 E. Montanari, L. Titarchuk & F. Frontera ``BeppoSAX Observations of the Power and Energy Spectral Evolution in the Black Hole Candidate XTE J1650-500'' ApJ, accepted