

## REPORT

On scientific cooperation between the Rome University La Sapienza (RU) and Iv. Javakhishvili Tbilisi State University (TSU) from January 2010 till December 2010 (according to the agreement regulating direct cultural and scientific cooperation RU and TSU).

### According to Art. 2, a):

Dr. F. Lanzara (RU) and Prof. A. Cialdea visited TSU in June 21-26, 2010.  
Prof. G. Jaiani (TSU) will visit RU from 8 till 15 November, 2010;  
Dr. N. Chinchaladze (TSU) will visit RU from 15 till 22 November, 2010;

### According to Art. 2, b):

Scientific information, documentation, and publication were systematically exchanged during personal meetings, by post and email.

### According to Art. 2, c):

During their stay of Prof. A. Cialdea and Dr. F. Lanzara at TSU

1. Dr. F. Lanzara (RU) gave a lecture course "Approximate approximations and some of its applications"
2. Prof. A. Cialdea gave a lecture course "The dissipativity of partial differential operators"

at the Advanced Courses on **Boundary Value Problems for Partial Differential Equations**, 21-23 June, 2010, organized for students and academic staff of TSU and researchers of I.Vekua Institute of Applied Mathematics (VIAM) of TSU in VIAM (organizer: Prof. G. Jaiani, see: <http://www.viam.science.tsu.ge/others/ticmi/index.html>)

3. Dr. F. Lanzara (RU) gave a talk "Tensor product approximations of high dimensional potentials"
4. Prof. A. Cialdea gave a talk "Completeness Theorems for polynomial solutions of elliptic equations of higher order"

at the mini-symposium on **Partial Differential Equations**, 21-23 June, 2010, organized for students and academic staff of TSU and researchers of VIAM TSU in VIAM (organizer: Prof. G. Jaiani, see: <http://www.viam.science.tsu.ge/others/ticmi/index.html>)

During their stay at RU of Prof. G. Jaiani and Dr. N. Chinchaladze the following talks will be given:

1. G. Jaiani. "On Theory of Cusped Shells, Plates, and Beams", Seminar, Dipartimento di Matematica-Istituto "Guido Castellnuovo", Università degli Studi di Roma "La Sapienza" (November 9, 2010, Italy)
2. N. Chinchaladze. "On Cusped Solid-Fluid Interaction Problems", Seminar, Dipartimento di Matematica-Istituto "Guido Castellnuovo", Università degli Studi di Roma "La Sapienza" (November 17, 2010, Italy)

### Paper:

1. N. Chinchaladze, G. Jaiani, B. Maistrenko, P. Podio-Guidugli. Concentrated Contact Interactions in Prismatic Shell-Like Bodies, submitted for publication to Archive of Applied Mechanics.