

Annual Report 2015

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Classification: *Theory - Condensed matter and statistical physics.*

During the year 2015 the scientific activity was mainly devoted to promote (1,2) and further develop the proteotronics discipline, we announced in 2014, which has been the subject of a book summarizing the basis of this new science (3), of a plenary invited contribution at the EDISON 2015 Conference in Salamanca (2), and of an original research (4). We further investigated the duality and reciprocity properties of the fluctuation dissipation theorem (5).

REFERENCES

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4. Eleonora Alfinito and Lino Reggiani, Mechanisms responsible for the photocurrent in bacteriorhodopsin *PHYSICAL REVIEW E* 91, 032702 (2015)
5. L. Reggiani, E. Alfinito and T. Kuhn, The dual property of number and velocity fluctuations of charge carriers in a macroscopic conductor under thermodynamic equilibrium conditions, *Lithuanian Journal of Physics*, Vol. 55, No. 4, pp. 315318 (2015)