

A PROPOSITION OF A TOPIC SESSION OF JETC 2017

Non-equilibrium thermodynamics of dissipative processes in complex media

PROPOSERS:

Bogdan T. Maruszewski

Poznan University of Technology, Poznan, Poland
bogdan.maruszewski@put.poznan.pl

Wolfgang Muschik

Technical University of Berlin, Berlin, Germany
wolfgang.muschik@tu-berlin.de

Liliana Restuccia

University of Messina, Messina, Italy
lrestuccia@unime.it

ABSTRACT

The Topic Session is devoted to discuss recent research on the following topics:

- Application of non-equilibrium processes in the field of complex media such as:
 - nanostructures
 - semiconductors
 - superfluids
 - ionized fluids
 - electromagnetic media
 - porous media
 - crystals with dislocations
 - biophysical systems
 - and other items;

- Constitutive equations of heat transport applied in several technological sectors;

- Thermodynamical models used for describing non-equilibrium phenomena in various fields of science.