

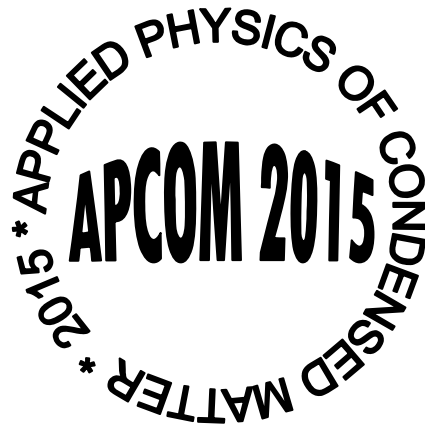
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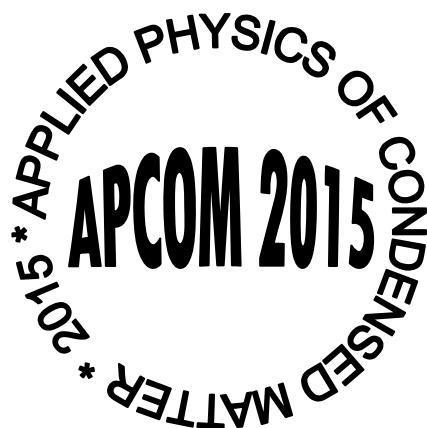
PROCEEDINGS

of the 21st International Conference on
APPLIED PHYSICS OF CONDENSED MATTER (APCOM 2015)
and of the Scientific Conference
ADVANCED FAST REACTORS
June 24 – 26, 2015

Hotel Patria, Štrbské Pleso, Slovak Republic

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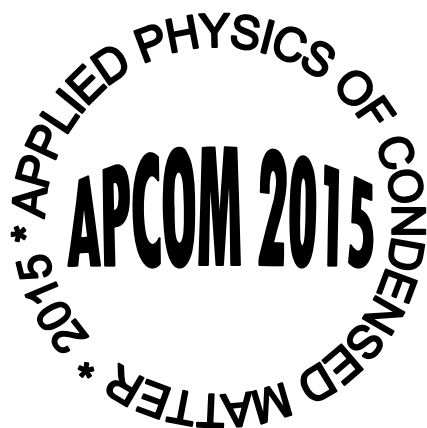
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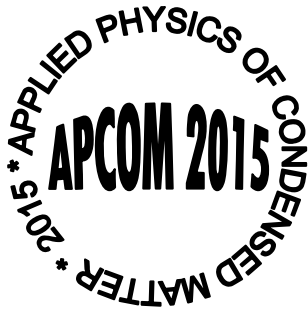
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The 21st International Conference on

APPLIED PHYSICS OF CONDENSED MATTER 2015

is the 21st international conference in the series of events started in the year 1995 with the workshop "Solid State Physics and Radioactive Irradiation". Next three years the name of this workshop was „Effect of Non–Standard External Factors on Physical Properties of Solids“. Since 1999, its name was transformed to current name "Applied Physics of Condensed Matter" (APCOM). APCOM provides an unique opportunity for experts in the field of applied physical research of condensed matter to come together and share their visions of future development and in the area of application of devices for example in electrical and nuclear power engineering, electronic and optical communication etc. The main focus of the conference is on presentation of both theoretical and experimental results, partly also of both computer simulation results and specific measurements techniques in the investigation of physical properties and structure of bulk solids and structures, thin solid films, ultrathin organic polymer films, micro- and nanostructures *etc.*, exposed to the influence of the wide-range specific external factors (electrical, magnetic, thermal, high-frequency electromagnetic waves, optical and ionized radiation, ion and elementary particles beams and so on).

This year the scientific conference **Advanced Fast Reactors** takes place together with the above one.

Main content areas:

1. *New materials and structures (incl. nanostructures and thin films), their analysis and specific applications*
2. *Physical properties and structural aspects of solid materials and their influencing*
3. *Optical phenomena in materials, photovoltaics and photonics, new principles in sensors, and detection methods, applied optics and optical communications*
4. *A: Nuclear science and technology (with emphasis on the influence of irradiation on physical properties of materials and radiation detection)*
B: Advanced fast reactors
5. *Computational physics and theory of physical properties of matter*
6. *Biophysics and interdisciplinary physics of condensed matter*

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