

## **Session 4:**

# **PHYSICAL ENGINEERING**

**Chairman: prof. Ing. Peter Ballo, PhD.**

## **9:00 - 10:45**

**1. X-RAY DIFFRACTION ANALYSIS OF Fe-Cr ALLOYS DUE TO THE EFFECT OF HELIUM IMPLANTATION**

**Patrik Novák, Edmund Dobročka, Vladimír Slugeň, Aleksandr Gokhman**

**2. MAGNETIC PROPERTIES OF GRAIN BOUNDARIES IN IRON: SLIDING AND MIGRATION**

**Eva Vitkovská, Peter Ballo**

**3. BEAM-TRANSPORT STUDY OF A SUPERCONDUCTING ROTATING GANTRY FOR PROTON-THERAPY BEAM**

**Jozef Bokor, Márius Pavlovič**

**4. DEVELOPMENT OF CONTROL ROD DESIGN FOR SFR CAPRA CORE**

**Lenka Dujčíková, Laurent Buiron, Ján Haščík**

## **10:00 – 10:15 Coffee Break**

**5. COMPLEX ANALYSES OF ODS STEELS**

**Iveta Bartošová, J. Čížek, M. Dománková, Vladimír Slugeň**

**6. NON-DESTRUCTIVE CHARACTERIZATION OF THE MATERIALS FOR FUTURE NUCLEAR REACTORS**

**Jozef Snopek**