

**SYMPOSIUM ON LATEST ACHIEVEMENTS IN PHYSICS  
ON THE OCCASION OF THE 20TH ANNIVERSARY OF  
THE “PROF. DR MARKO V. JARIC” FOUNDATION  
(Symposium MJ 2018)**

**PROGRAMME**

**FRIDAY, 23 MARCH 2018.**

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**Main Hall of the Serbian Academy of Sciences and Arts (SASA)  
Knez Mihailova 35, II floor**

**09:30 – 10:00 Opening**

**Vladimir Kostić**, President of the SASA  
**Petar Adžić**, Governor of the Foundation

**Chairman: Petar Adžić**

**10:05–10:50 John Ellis**

Kings College London and CERN  
*Title of the talk: Particle physics, present and future*

**10:55–11:25 Coffee break**

**11:30–13:00 Ceremony of the “Marko Jarić” prize Award for 2017**

Opening: **Milivoj Belić**, Deputy president of Governing Board  
Report of the Award Committee: **Zoran Radović**  
The prize award to the winner  
Lecture of the winner

**FRIDAY, 23 MARCH 2018.**

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**Faculty of Physics of University of Belgrade**  
**Studentski trg 12–16, Block C, III floor**

**13:20–15:00 C O C K T A I L**

(Student's library of Faculty of Physics)  
Faculty of Physics of University of Belgrade  
Studentski trg 12 – 16, Blok C, III floor  
Physics amphitheatre – Hall 661

**Chairman: Jovo Jarić**

**15:00–15:30 Miodrag Kulić**

Institute for Theoretical Physics, Goethe University,  
60 438 Frankfurt am Main, Germany

*Title of the talk: **High Temperature Superconductors – The Current State***

**15:35–16:05 Zoran Lj. Petrović**

Institute of Physics, University of Belgrade

*Title of the talk: **Describing the non-equilibrium processes, from plasma physics to fundamental principles and back to practical applications***

**16:10 –16:40 Milan Damnjanović**

NanoLab, Faculty of Physics, University of Belgrade and  
SASA

*Title of the talk: **Electron-phonon coupling anomalies in layers***

**16:45–17:15 Bosiljka Tadić**

Department of Theoretical Physics, Jozef Stefan Institute,  
Ljubljana

*Title of the talk: **Hyperbolic Geometry of Networks Emerging from Online Social Endeavors***

**18:00–21:00 SYMPOSIUM DINNER**

**Konoba AKUSTIK**

**kafana sa dušom**

**Cara Dušana 13, Dorćol, Beograd**

**SATURDAY, 24 MARCH 2018.**

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**Faculty of Physics of University of Belgrade**  
**Studentski trg 12 – 16, Block C, III floor**  
**Physics amphitheatre – Hall 661**

**Chairman: Горан Попарић**

**10:00–10:30 Zoran Radović**

Faculty of Physics, University of Belgrade and SASA  
*Title of the talk: **Interplay of superconductivity and magnetism***

**10:35–11:05 Vlatko Vedral**

University of Oxford  
*Title of the talk: **Which roads to quantum gravity can explain spatial entanglement of massive particle?***

**11:10–11:40 Vladan Vuletić**

Lester Wolfe, Massachusetts Institute of Technology  
*Title of the talk: **Atomic clock below the standard quantum limit***

**11:45–12:15 Časlav Brukner**

Institute for Quantum Optics and Quantum Information,  
Vienna & Faculty of Physics, University of Vienna  
*Title of the talk: **Quantum superpositions of causal orders***

**12:20–12:50 Coffee break**

**Chairman: Duško Borka**

**12:55–13:25 Jelena Vučković**

Stanford University, Stanford, CA, USA  
*Title of the talk: **Quantum nanophotonics: from inverse design to implementations***

**13:30–14:00 Čedomir Petrović**

Brookhaven National Laboratory  
*Title of the talk: **Thermoelectric Power Factor and Electronic Correlations in FeSb<sub>2</sub>***

**14:05–14:35 Dejan Stojković**

State University of New York at Buffalo

*Title of the talk: Quantum aspects of gravitational collapse: non-locality and non-singularity*

**14:40–15:10 Leonardo Golubović**

Department of Physics and Astronomy, West Virginia University

*Title of the talk: Physics of Rotating Space Elevators*

**15:15 Closing**