

# The 4th International Conference on Holography and its Applications

Khazar University, Baku, Azerbaijan

Friday 19<sup>th</sup> Sep. 2025

| Presenter                                                                                                                     | Title                                                                                         | Time Zone                                                                                    |                                                                                          |                                                                                           |                                                                                            |                                                                                             |                                                                                           |       |                                                                                               |                                                                                            | Chairman                                                                                   |                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|                                                                                                                               |                                                                                               | +4:00                                                                                        |                                                                                          |                                                                                           |                                                                                            |                                                                                             | Central European Summer                                                                   |       |                                                                                               |                                                                                            |                                                                                            | GMT                                                                                                      |
|                                                                                                                               |                                                                                               |  Azerbaijan |  Iran |  India |  Turkey |  Romania |  Italy |       |  Argentina |  Brazil |  Canada |  USA                  |
| A.Alizade, B.Sonali, H.Farahani, M.Giliberti, M.Samadzadeh, M.Tavakoli, M.Malekiverki, S.Motalebi, P.Nedaei, E.Naghde Mezerji | Poster presentation<br>online                                                                 | 11:30                                                                                        | 11:00                                                                                    | 13:00                                                                                     | 10:30                                                                                      |                                                                                             | 09:30                                                                                     | 07:30 | 04:30                                                                                         |                                                                                            | 03:30                                                                                      | <br>Behnam Pourhassan |
| Saifollah Rasouli                                                                                                             | Generation and Applications of Structured Light Beams with Various Symmetries<br>online       | 12:00                                                                                        | 11:30                                                                                    | 13:30                                                                                     | 11:00                                                                                      |                                                                                             | 10:00                                                                                     | 08:00 | 05:00                                                                                         |                                                                                            | 04:00                                                                                      | <br>Orhan Dönmez      |
|                                                                                                                               | Lunch                                                                                         |                                                                                              |                                                                                          |                                                                                           |                                                                                            |                                                                                             |                                                                                           |       |                                                                                               |                                                                                            |                                                                                            |                                                                                                          |
| Amjad Ashoorioon                                                                                                              | Ghost Condensate Dark Energy with Sextic Dispersion Relation in de Sitter Spacetime<br>online | 14:00                                                                                        | 13:30                                                                                    | 15:30                                                                                     | 13:00                                                                                      |                                                                                             | 12:00                                                                                     | 10:00 | 07:00                                                                                         |                                                                                            | 06:00                                                                                      |                                                                                                          |
| Christina Rugina                                                                                                              | The modular Dirac equation and cryptography<br>online                                         | 14:45                                                                                        | 14:15                                                                                    | 16:15                                                                                     | 13:45                                                                                      |                                                                                             | 12:45                                                                                     | 10:45 | 07:45                                                                                         |                                                                                            | 06:45                                                                                      | <br>Izzet Sakalli   |
| Haidar SheikhAhmadi                                                                                                           | Renormalization of QFT in USR inflation: Recent developments<br>online                        | 15:30                                                                                        | 15:00                                                                                    | 17:00                                                                                     | 14:30                                                                                      |                                                                                             | 13:30                                                                                     | 11:30 | 08:30                                                                                         |                                                                                            | 07:30                                                                                      |                                                                                                          |
| Fabiano F. Santos                                                                                                             | Entanglement islands and Page curve in the framework of Horndeski gravity<br>online           | 16:15                                                                                        | 15:45                                                                                    | 17:45                                                                                     | 15:15                                                                                      |                                                                                             | 14:15                                                                                     | 12:15 | 09:15                                                                                         |                                                                                            | 08:15                                                                                      |                                                                                                          |
| Leonard Susskind                                                                                                              | Observers in de Sitter Space<br>online                                                        | 17:00                                                                                        | 16:30                                                                                    | 18:30                                                                                     | 16:00                                                                                      |                                                                                             | 15:00                                                                                     | 13:00 | 10:00                                                                                         |                                                                                            | 09:00                                                                                      | <br>Izzet Sakalli   |
| Edward Witten                                                                                                                 | Introduction to black hole thermodynamics<br>online                                           | 18:30                                                                                        | 18:00                                                                                    | 20:00                                                                                     | 17:30                                                                                      |                                                                                             | 16:30                                                                                     | 14:30 | 11:30                                                                                         |                                                                                            | 10:30                                                                                      |                                                                                                          |
| Behnam Pourhassan                                                                                                             | Closing                                                                                       | 19:30                                                                                        | 19:00                                                                                    | 21:00                                                                                     | 18:30                                                                                      |                                                                                             | 17:30                                                                                     | 15:30 | 12:30                                                                                         |                                                                                            | 11:30                                                                                      |                                                                                                          |

Zoom link: <https://us06web.zoom.us/j/84574807624?pwd=sxWjti6U7T0b5v64rKx8yOqhU97kb4.1>