

## Monday, May 17

Institute of Mathematics, Sniadeckich 8, Lecture hall 321

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| 8:30 - 9:50   | Registration, floor III   |
| 10:00 - 10:15 | Opening   |
| 10:15 - 11:00 | <b>Sir Roger Penrose</b> - Dynamical Equations for the Big Bang                               |
| 11:15 - 12:00 | <b>Andrzej Trautman</b> - The rudiments of twistor theory                                     |
| 12:00 - 12:30 | Coffee break  |
| 12:30 - 13:15 | <b>Abhay Ashtekar</b> - The Many Faces of Black Holes   |
| 13:15 - 15:15 | Lunch break   |
| 15:15 - 16:00 | <b>Nick Woodhouse</b> - Twistors and Special Functions  |
| 16:15 - 17:00 | <b>Iwo Białynicki-Birula</b> - Can homodyne principle help to understand quantum measurement? |

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| 18:00 | <b>Sir Roger Penrose</b> - Aeons Before The Big Bang |
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## Tuesday, May 18

Institute of Mathematics, Sniadeckich 8, Lecture hall 321

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|---------------|--|
| 9:10 - 10:00  | <b>Artur Ekert</b> - Less reality, more security?                                      |
| 10:15 - 11:00 | <b>Jerzy Kijowski</b> - Quasi-local energy of gravitational field                      |
| 11:15 - 12:00 | <b>Giuseppe Marmo</b> - Geometry and Quantum Mechanics                                 |
| 12:00 - 12:30 | Coffee break   |
| 12:30 - 13:15 | <b>Dominique Lambert</b> - The mathematical road towards Biology: speedway or Holzweg? |
| 13:15 - 15:00 | Lunch break  |
| 15:00 - 15:45 | <b>Marek Kuś</b> - Quanglement and identical particles                                 |
| 16:00 - 16:30 | <b>Michał Heller</b> - General Relativity and von Neumann Algebras                     |
| 16:45 - 17:15 | <b>Shahn Majid</b> - A Lie theory of finite simple groups                              |