



CHAPMAN
UNIVERSITY

**Institute for
Quantum Studies**

Yakir Aharonov's 90th Birthday Celebration
AGENDA FOR AUGUST 14TH-18TH
LOCATION: ARGYROS FORUM 212

Monday, August 14th, 2023

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| 8:30AM | Arrive at Chapman University & enjoy a light breakfast in AF 201 |
| 8:50 AM | President Daniele Struppa Opening Remarks |
| 9:00 AM | Yakir Aharonov – “A new approach to quantum mechanics” |
| 10:00 AM | Daniele Struppa - Talbot Effect, Gauss Sums, and Superoscillations |
| 11:00 AM | Fabrizio Colombo – “Schrodinger evolution of superoscillations” |
| 12:00 PM | Lunch |
| 2:00 PM | Bill Unruh – “Ligo is Quantum” |
| 3:00 PM | Paul Davies – “Open Questions at the Quantum Frontier” |
| 4:00 PM | David Z. Albert – “Big and Small” |
| 6:00 PM | Cocktail Hour – Interfaith Chapel |

Tuesday, August 15th, 2023

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| 8:30 AM | Arrive at Chapman University & enjoy a light breakfast in AF 201 |
| 9:00 AM | Andrew Briggs- “From clocks to qubits” |
| 10:00 AM | Lev Vaidman – “Robust Weak Values” |
| 11:00 AM | Eli Cohen – “Yakir's gifts to the world - Those we've opened and those we haven't yet” |
| 12:00 PM | Lunch |
| 2:00 PM | Aephraim Steinberg - “When particles show up where they're not supposed to be: weakly & strongly measuring tunneling atoms” |
| 3:00 PM | Irene Sabadini – “Superoscillating functions in several variables” |
| 4:00 PM | John Howell – “Super Radar” |

Wednesday, August 16th, 2023

8:30 AM	Arrive at Chapman University & enjoy a light breakfast in AF 201
9:00 AM	Yuval Gefen – “Quantum engineering of unsteerable states and weak values”
10:00 AM	Daniel Rohrlich – “What Is Nonlocal in Counterfactual Quantum Communication?”
11:00 AM	Serge Massar - “Photonic Machine Learning”
12:00 PM	Lunch
2:00 PM	Ady Stern – "Anyons and the ways to observe them in experiments"
3:00 PM	Armen Gullian – “Superconductivity and Quantum Physics”
4:00 PM	Benni Reznik - TBD
6:00 PM	Conference Dinner – Avilas El Rachito Mexican Restaurant

Thursday, August 17th, 2023

8:30 AM	Arrive at Chapman University & enjoy a light breakfast in AF 201
9:00 AM	Roger Penrose - TBD
10:00 AM	Shmuel Nussinov – "Connections, Galactic communications, networks and physics"
11:00 AM	Leonard Susskind - "ER=EPR"
12:00 PM	Lunch
2:00 PM	Sandu Popescu - TBD
3:00 PM	Yutaka Shikano – “Three-particles Aharonov-Bohm effect”
4:00 PM	Howard Wiseman – “Quantum state smoothing cannot be assumed classical even when the filtering and retrofiltering are classical”

Friday, August 18th, 2023

8:30 AM	Arrive at Chapman University & enjoy a light breakfast in AF 201
9:00 AM	Jeff Tollaksen - TBD
10:00 AM	Avshalom Elitzur – “The Aharonov-Bohm Effect Embodies all Essential Oddities of Quantum Mechanics”
11:00 AM	Andrew Jordan – “Beyond Superoscillation”
12:00 PM	Lunch
2:00 PM	Yakir Aharonov – Closing Remarks