

**Yearly report for the Elizabeth and Richard Henes Center for Quantum Phenomena
(CQP) for fiscal year 2024**

2024 Summary vs 2023:

(1) Total number of awards:	6	vs	8	in 2023
(2) Total number of projects:	12	vs	14	in 2023
(3) Total awards in dollars:	\$944,075	vs	\$1,136,661	in 2023
(4) Total expenditures:	\$810,018	vs	\$640,500	in 2023
(5) IRAD return:	\$35,174	vs	\$29,500	in 2023

Externally funded active research awards at the end of the fiscal year 2024.

(1) Ramy El-Ganainy:	
(a) USC-CQP- Optical Thermo Systems	E48482
(b) UNIVE-CQP-Quantum Dynamics year III	E48416
(2) Ravi Pandey:	
(a) OFFIC-CQP-Study Relation Low Dim Materials	E40404
(3) Dongyan Zhang:	
(a) NSF-CQP-Boron Nitride Dots	E40410
(b) STABI-CQP-High Brightness Fluoropho -1	E47438
(c) STABI-CQP-High Brightness Fluoropho -2	E47439
(4) Issei Nakamura:	
(a) NSF-CQP-CAREER: Ion Salvation	E42967
(5) Alex Kostinski:	
(a) NSF-CQP-Texture of Stochastic Processes	E43098
(6) Jae Yong Suh:	
(a) NSF-CQP-ERI Quantum-Light Emitting	E43143
(7) Yoke Khin Yap	
(a) NSF-CQP-Boron Nitride Dots	E40411
(b) NSF-CQPI-Corps Travel-Boron Nitride	E40412

CQP's sponsored activities in fiscal year 2024 (IRAD account E35234):

(1) Technical Support Staff (salary and fringes)	\$6,020
(2) Travel to conferences and scientific centers	
(a) Faculty	\$7,160
(b) Director	\$1,000
(c) Graduate Students	\$6,831
(d) Undergraduate students	\$784
(3) Small items: (use charges, scientific supplies, small equipment, books)	\$161

Total expenditures for the year from CQP IRAD account	~(\$21,960)
Total return into CQP IRAD account	~\$35,174
Balance at the beginning of fiscal year 2024	~\$5,250

CQP IRAD balance at the beginning of fiscal year 2025	<u>~\$18,464</u>
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Expenditures during fiscal year 2024 from sources other than CQP IRAD return:

Graduate students

(1) Graduate students' fellowships	\$54,500
(2) Graduate students' tuition	\$18,000
(3) Graduate student's hourly	\$16,300
(4) Graduate student's travel	\$11,500

Undergraduate students

(1) Undergraduate student research fellowships:	\$12,200
(2) Undergraduate student study abroad (Switzerland)	\$26,500
(3) Undergraduate students research awards	\$2,000
(4) Undergraduate students hourly	\$4,400
(5) Small items (Society of Physics Students)	\$1,300

Faculty

(1) Travel	\$2,100
(2) Visiting scientists	\$2,700
(3) Contribution to the maintenance cost of MTU shared instruments	\$1,500

Director

(1) Director salary + fringes	\$2,996
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Total expenditures from sources other than CQP IRAD return	~\$156,000
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Total CQP expenditures from all sources	<u>~\$178,000</u>
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