

**Yearly report for the Elizabeth and Richard Henes Center for Quantum Phenomena
(CQP) for fiscal year 2023**

2023 Summary vs 2022:

(1) Total number of awards:	8	vs	7	in 2022
(2) Total number of projects:	14	vs	13	in 2022
(3) Total awards in dollars:	\$1,136,661	vs	\$603,500	in 2022
(4) Total expenditures:	\$640,500	vs	\$569,000	in 2022
(5) IRAD return:	\$29,500	vs	\$27,000	in 2022

Externally funded active research awards at the end of the fiscal year 2023.

(1) Miguel Levy:	
(a) PHOTO-CQP- Magneto Optics	E47037
(2) Ramy El-Ganainy:	
(a) UNIVE-CQP- ADV ACCT-Quantum Dynamics	E48306
(b) UNIVE-CQP-ADV ACCT-Quantum Dynamics year II	E48371
(3) Ravi Pandey:	
(a) USARM-CQP-Low Dim Materials	E40370
(4) Dongyan Zhang:	
(a) STABI-CQP-High Brightness Fluoropho -1	E47438
(b) STABI-CQP-High Brightness Fluoropho -2	E47439
(5) Issei Nakamura:	
(a) NSF-CQP-CAREER: Ion Salvation	E42967
(6) Alex Kostinski:	
(a) NSF-CQP-Texture of Stochastic Processes	E43098
(b) LAWRE-CQP-Support for Gas-Gun Expertise	E46797
(c) USNAS-CQP- Epic Solar Glint	E43574
(7) Jae Yong Suh:	
(a) NSF-CQP-ERI Quantum-Light Emitting	E43143

CQP's sponsored activities in fiscal year 2023 (IRAD account E35234):

(1) Guest, Speakers, Senior Collaborators	\$3,830
(2) Travel to conferences and scientific centers	
(a) Faculty	\$9,770
(b) Director	\$2,200
(c) Graduate Students	\$11,100
(d) Undergraduate students	\$700
(3) Cost share: (use charges, scientific supplies, small equipment, books)	\$6,750
(4) Graduate student support (stipend, tuition, fringes)	\$35,100
(5) Contribution to the maintains cost of MTU shared instruments:	
(a) TITAN, FIB, SEM	\$4,000

Total expenditures for the year from CQP IRAD account	~(\$73,450)
Total return into CQP IRAD account	~\$29,500
Balance at the beginning of fiscal year 2023	~\$48,800
CQP IRAD balance at the beginning of fiscal year 2024	<u>~\$4,900</u>

Expenditures during fiscal year 2023 from sources other than CQP IRAD return:

(1) Graduate students (stipends, tuition, fringes, fellowships)	\$41,600
(2) Undergraduate student research fellowships:	\$21,300
(3) Undergraduate student study abroad support	\$22,200
(4) Undergraduate students research awards	\$2,000
(5) Supplies	\$1,000
(6) Director one month summer salary	\$14,100

Total expenditures from sources other than CQP IRAD return ~\$102,200

Total CQP expenditures from all sources ~\$175,650