



Teledyne Princeton Instruments



JPhys Photonics



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Nanophotonics Out of Equilibrium

Organizers: Matthew Pelton, Alejandro Majavacas, Maxim Sukharev

June 25 – 29, 2023

Telluride Intermediate School, 725 W. Colorado Ave., Telluride, CO 81435

TSRC host: Mark Kozak, 970-708-4426

Saturday, June 24

4:30 – 7:00 All Telluride Science Meet and Greet
The Liberty, 121 S. Fir St.

Sunday, June 25

2:00 – 2:45 Maxim Sukharev Molecular plasmonics under strong coupling driven by intense radiation

2:45 – 3:30 Jeffrey Owrutsky Nonequilibrium effects in vibration-cavity polaritons

4:30 – 7:00 Happy Hour (sponsored)
The Roof, New Sheridan Hotel, 231 W. Colorado Ave.



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Monday, June 26

8:30 – 9:00 AM

Continental Breakfast

- | | | |
|--------------|-----------------|---|
| 9:00 – 9:45 | Matthew Pelton | Room-temperature strong coupling between plasmonic nanocavities and single emitters |
| 9:45 – 10:30 | Alexey Belyanin | Quantum dynamics of many-emitter states in dissipative nanocavities |

10:30 – 11:00

Coffee Break

- | | | |
|------------------|-----------------------------|--|
| 11:00 – 11:45 | Fermius Koenderink | Towards sideband-resolved molecular optomechanics – bringing high-Q to the nanocube-on-mirror system |
| 11:45 – 12:30 PM | Antonio Fernandez-Dominguez | Quantum nanophotonics: antibunched light and molecular entanglement |

12:30 – 1:30

Lunch (catered)

- | | | |
|-------------|----------------------|---|
| 1:30 – 2:15 | Garnett Bryant | Quantum plasmonics and analog quantum simulation: what you can learn about quantum plasmons and dynamics from few-body simulators |
| 2:15 – 3:00 | Alejandro Manjavacas | Lattice resonances excited by arbitrary sources: from single emitters to finite-width light beams |

3:00 – 6:00

Free Time

6:00 – 8:00

Pizza Party (sponsored)

Outside Telluride Intermediate School, under the tent



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Tuesday, June 27

8:30 – 9:00 AM

Continental Breakfast

9:00 – 9:45

Wei Xiong

Molecular dynamics modified by light-matter strong coupling

9:45 – 10:30

Joel Yuan Zhou

Polariton chemistry: single-molecule vs collective phenomena

10:30 – 11:00

Coffee Break

11:00 – 11:45

Jacob Khurgin

Why are refractive indices so close for different materials and also so difficult to change?

11:45 – 12:30
PM

Hayk Haratyunyan

Ultrafast and nonlinear response of high-n metasurfaces and epsilon near zero materials

12:30 – 2:00

Lunch / Student Poster Session (catered)

2:00 – 6:30

Group Hike

Town Talk

6:30 – 7:30

Telluride Conference Center, Mountain Village

Cash bar, Doors open 6:00



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Wednesday, June 28

8:30 – 9:00 AM

Continental Breakfast

9:00 – 9:45

Matthew Sheldon

Optimizing and preserving exceptional photoluminescence of halide perovskite nanocrystals

9:45 – 10:30

Jennifer Hollingsworth

Intrinsic and extrinsic control of quantum optical properties in colloidal quantum dots: focus on synthesis and nanointegration

10:30 – 11:00

Coffee Break

11:00 – 11:45

Mona Tréguer-Delapierre

Controlling nanomaterial properties using organization

11:45 – 12:30
PM

Andrea Baldi

Plasmonic photothermal chemistry: nanoscale and ultrafast heating with metal nanoparticles

12:30 – 2:00

Lunch (catered)

2:00 – 5:30

Free Time

5:30 – 7:30

All-workshop Telluride Science Picnic
Outside Telluride Intermediate School, under the tent



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Thursday, June 29

8:30 – 9:00 AM

Continental Breakfast

9:00 – 10:30

Open Discussion and Planning Session